

# Inmarsat Services Broadband Global Area Network (BGAN)



## Inmarsat Services

Inmarsat's Broadband Global Area Network (BGAN) is a new highly mobile satellite service operating at data rates up to 492 kbps. Using a lightweight satellite terminal, comparable to or smaller than the size of a laptop computer, BGAN enables users to access email, corporate networks and the Internet, as well as transfer files, video-conference, and make telephone calls from nearly anywhere in the world. BGAN operates using a new generation of the most powerful satellites ever launched.

The new BGAN terminals can operate anywhere in the world on the new Inmarsat-4 satellite constellation which offers significantly enhanced performance and capability for users compared with the older I-3 constellation. To end users this means faster data rates and smaller equipment to carry. The combination of the ease of use and flexibility of BGAN terminals combined with other Globecom products provide high-speed connectivity while operating in secure, mission-critical situations.

### Key Benefits:

- Highly portable terminals – no larger than a notebook PC
- Easy and fast set up
- Supports a variety of IP hardware and applications
- Offers guaranteed data rates on demand, up to half a megabit
- Available in North America, South America, Europe, Africa, the Middle East, and Asia

**BGAN operates using a new generation of the most powerful satellites ever launched.**

## Service Summary

### Standard “Best Effort Class”

IP Service is a variable bit rate, up to 492 kbps, always on service. This service is intended for web access, email, instant messaging, file transfer, and other similar applications. The applications best suited for this service are those that are tolerant of varying bit rates. The user pays only for data transferred, not by time on the network.

### Premium “Streaming Class”

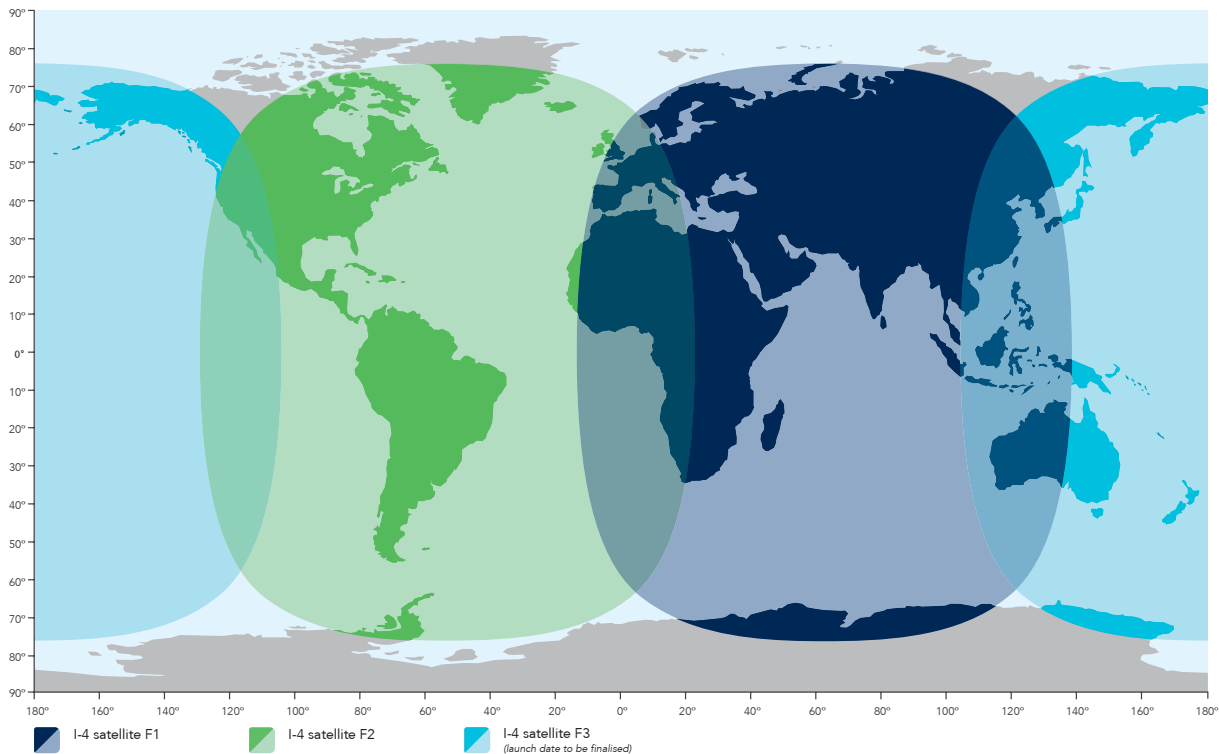
IP Service provides a guaranteed full-duplex bit rate. User-selectable options are 32, 64, 128, or 256 kbps, and are available without any user coordination with the NOC. This service is targeted toward applications such as live video streaming, video conferencing, time-sensitive file transfers, etc. (any application that requires a guarantee of performance). The user pays for this service by the minute.

All terminals offer a toll-quality voice service that operates simultaneously with the data service. So, a user is able to initiate a large file transfer and then make a phone call while the data transfer is taking place.

Full-featured terminals (Thrane & Thrane Explorer 700 and Hughes HNS-9201) also offer ISDN connectivity for connection of a variety of application devices such as H.320/323 video conferencing and STU/STE phones. As with the voice service, the ISDN service operates simultaneously with the IP data channel.



## BGAN Coverage



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. BGAN coverage April 2007

## BGAN Service Additional Features

Since the BGAN network utilizes a 3G GPS switch at the earth stations, all of the features that users are familiar with on their mobile phones are available on BGAN user terminals.

These features include:

- Caller ID
- Phonebook
- Call Hold
- Call Waiting
- Call Divert
- Call Barring
- Voice Mail
- Text Messaging

## BGAN Products

Specifications				
Model	Explorer 300	Explorer 500	Explorer 700	HNS 9201
Bandwidth	240/384 kbps	484/464 kbps	492/492 kbps	492/492 kbps
Streaming IP	32,64 kbps	32, 64, 128 kbps	32, 64, 128, 256 kbps	32, 64, 128, 256 kbps
ISDN	No	Via USB, Bluetooth	Yes, 2 ports	Yes, 1 port
Phone/Fax Interface	RN11, Bluetooth	RN11, Bluetooth	2-RN11, Bluetooth	Via ISDN Handset
Data Interface	LAN, Bluetooth	USB, LAN, Bluetooth	USB, 2-LAN, Bluetooth, WiFe	USB, LAN, Bluetooth, WiFe (802, 11b)
Battery	36 His Standby 3 His Voice/Data	36 His Standby 3 His Voice/Data	36 His Standby 3 His Voice/Data	36 His Standby 3 His 3 His Voice Data
Weight	3.1 lis (1.4 kg)	3.3 lis (1.5 kg)	7.0 lis (3.2 kg)	6.2 lis (2.8 kg)
Size	6.7 x 8.5 x 2.1 in (170 x 217 x 52 mm)	8.6 x 8.5 x 2.1 in (218 x 217 x 52 mm)	11.4 x 15.7 x 2.0 in (290 x 299 x 51 mm)	13.6 x 10.8 x 2.0 in (345 x 275 x 50 mm)

## Lifecycle Support Services:

### 24/7 Network Monitoring Operations & Help Desk



### Global Installation & Maintenance Services



Our teams of certified VSAT technicians provide worldwide field support services. As part of Globecomm's commitment to the VSAT market, our "On the ground" support teams provide

- Site Surveys
- VSAT Installation
- Service Commissioning
- On-site Training
- Hands-on Trouble Shooting and Repair
- Preventative & Corrective Maintenance Support

Escalated globally from our 24/7 Support Center, our team is ready at a moments notice to provide our service anywhere around the world. We also offer guaranteed service level support for mission critical networks.

## About Globecomm

Globecomm integrates satellite into network applications in order to provide high-quality connections to the edge of the network, broadcast one-to-many, and support bandwidth-hungry applications. We specialize in providing total solutions that free you to focus on your core mission, whether it is telecommunications, broadcasting, retailing, serving constituents, maintaining security or projecting force. We deliver systems and services anywhere in the world, under any conditions. Whether it's a secure military application in a war zone or restoration of service in the wake of disaster, our worldwide team gets it done.

When you buy systems or services from Globecomm, you benefit from the vast experience of our engineers, who include some of the pioneers of the communications industry. You also benefit from Globecomm's substantial intellectual capital: computerized tools, designs, patents, methodologies, skills and knowledge allows us to guarantee that the system we sell you enters service, with no excuses, no finger-pointing, no matter what.



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