



Trusted Mobile Communications
for the U.S. Government



BGAN HDR – The next generation in L-band capability

Superior video quality with up to 800kbps

Inmarsat Broadband Global Area Network (BGAN) High Data Rate (HDR) services meet U.S. government users' demand for high data-rate video streaming that is easy to use, establishing enhanced real-time situational awareness in the field.

The government's mobile forces require reliable, high-throughput satellite communications to support bandwidth-hungry applications – such as Intelligence, Surveillance and Reconnaissance (ISR), VoIP and video conferencing – and ensure mission success anywhere in the world.

BGAN HDR's markedly increased streaming rate is available in both symmetric and asymmetric options, producing a high-quality picture with a form factor that fits into a backpack.

Users benefit from the following key, distinct qualities of Inmarsat BGAN HDR:

- > **High throughput:** up to 800kbps; greater than 1Mbps with two-terminal bonding
- > **Flexible:** full or half channels with symmetric and asymmetric options
- > **Worldwide coverage:** connectivity anytime, anywhere
- > **Reliable:** delivered via Inmarsat's trusted Inmarsat-4 network with 99.9% network availability
- > **Easy to use:** point-and-play easy-to-use terminals

Real step-change in video quality from a trusted mobile satellite services provider

BGAN HDR adds to the world-class BGAN portfolio of streaming services, designed to achieve maximum performance for a single mobile terminal. BGAN HDR supports streaming rates via highly compact and easy-to-use terminals. It brings speeds up to 800kbps including symmetric and asymmetric options. BGAN HDR terminals can be switched to Standard IP, as well as voice and SMS, and services are integrated with all existing BGAN Packet-Switched services network monitoring and business intelligence tools

Unrivalled reliability

BGAN HDR is made available by the Inmarsat-4 worldwide, end-to-end L-band network, with 99.9 percent satellite and ground network availability.

Point and play

BGAN HDR terminals are compact, lightweight, portable and cost-effective. No technical expertise or training is required to set up and use the terminals, which are plug and play. Users can establish a connection within minutes, anywhere in the world.

System features

Inmarsat BGAN HDR provides a throughput up to 800kbps with its full channel option and up to 1Mbps by bonding two terminals together.

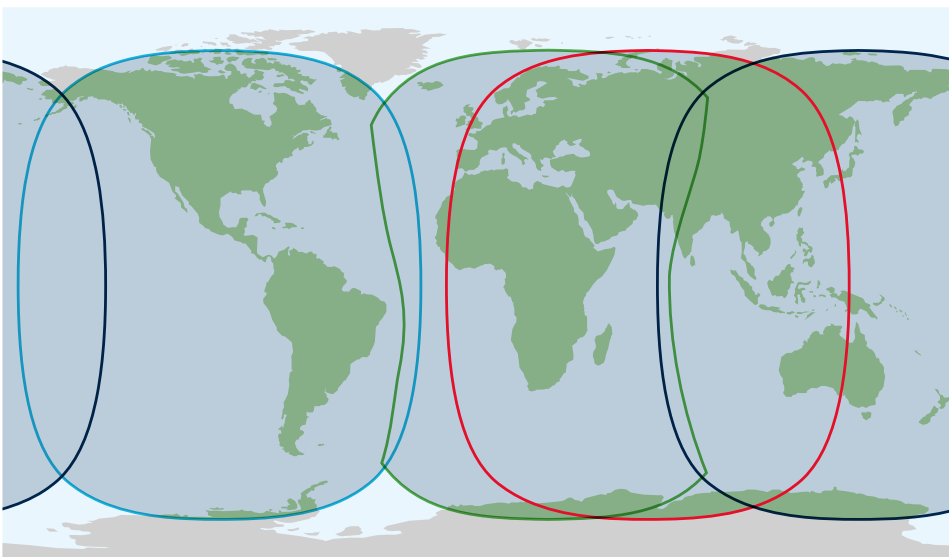
Applications

- > High-resolution video
- > Local remote office
- > Telemedicine
- > Distance learning
- > Disaster relief
- > Humanitarian support



Global coverage

BGAN HDR is available worldwide, providing connectivity wherever your mission takes you. Our uniform network and coverage means that, unlike traditional VSAT, you can deploy to any part of the world and expect the same service.



Combined I-4 and Alphasat coverage I-4 Americas Alphasat I-4 MEAS I-4 Asia-Pacific

This map depicts Inmarsat's expectations of coverage following the commercial introduction of Inmarsat's fourth L-band region, scheduled for the end of 2015. It does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.



Use-case scenario

Today's government mobile users depend upon high throughput streaming and standard IP services to receive and transmit large amounts of data. Specifically, operators who transmit high-resolution video or large images typically need significant throughput in the return direction – from the field to the HQ – to push data in real time, while facing less demanding requirements in the forward direction. They also seek equipment that is extremely portable and easy to use on a moment's notice, anywhere around the globe.

Inmarsat BGAN HDR responds by providing a minimum throughput of 580kbps with its full channel option, but users can expect to see an average speed of 600-700kbps, reaching as high as 800kbps. These services are delivered in the return direction via smaller, and more affordable antennas.

