



INMARSAT GLOBAL GOVERNMENT COMMUNICATIONS MADE CERTAIN

)) inmarsat **GERMAN RED CROSS** EMERGENCY EXERCISE CASE STUDY

This case study is over 5 years old. Whilst the specific hardware mentioned may have been superseded with more advanced models, it proves the longevity and capability of Inmarsat's L-band services. With proven technology and global coverage, you can rely on our services for #communicationsmadecertain



BGAN SUPPORTS GERMANY'S LARGEST EMERGENCY EXERCISE

IN GERMANY'S LARGEST-EVER EMERGENCY EXERCISE, MCI SOGRO 500 - A CRASH INVOLVING TWO AIRCRAFT CARRYING 500 PASSENGERS WAS STAGED AT FRANKFURT AIRPORT. FIRST RESPONDERS SWUNG INTO ACTION TO DEAL WITH THIS MASS CASUALTY INCIDENT. MCI GETTING THE 'VICTIMS' TO HOSPITAL AND BRINGING THE SITUATION UNDER CONTROL.

In the disaster scenario terrestrial communication networks had failed, but the authorities were able to rely on a BGAN terminal - supplied by Inmarsat partner CPN Satellite Services - to transmit vital information.

The purpose was to test out emergency response procedures and technology designed to

ensure quicker and more efficient treatment of casualties. More than 1,570 people were involved in the October 2010 exercise - including police, fire and ambulance, together with more than 455 emergency vehicles.

The BGAN terminal, played a vital role in helping the German Red Cross Frankfurt to coordinate the complex rescue operation

by ensuring that data for each patient was captured and sent to the incident command centre.

It meant that hospitals were able to prepare more quickly for incoming casualties, and patient data was readily available to both rescuers out in the field and medical staff.





PEOPLE Involved in the Exercise

EMERGENCY VEHICLES

PASSENGERS In Simulated Aircraft Crash Exercise





HOW BGAN WAS USED

A new system - in which each patient was given a wristband with a RFID (Radio Frequency Identification) chip - was tested for the first time during the exercise.

The idea was to replace an old paper system, which relied on coloured cards to record information about each patient and their injuries, with technology that could provide patient data in real time.

Under the new system, the colour of each wristband was used to indicate the degree of injury, while additional data, such as age, sex and a photograph of the person, was captured on data capture handsets (PDAs) and transferred to the RFID chip.

The chip could then be read by other rescue workers, and the collected data additionally transmitted from the PDA to the command centre via the WLAN using the BGAN terminal.



ABOUT BGAN

Our BGAN service provides simultaneous voice and data communications globally from small and lightweight satellite terminals.

Connect your BGAN terminal to a portable PC or smart device using Standard IP to access the internet for applications such as web browsing and email, or choose from a range of guaranteed Streaming IP rates to meet all your data, voice and video needs.

BGAN is accessible via a range of small, lightweight satellite terminals, which provide performance options to suit different operational needs.

The smallest terminals are designed to suit single users. The larger terminals offer a WLAN capability and are particularly suitable for small teams that need to establish a temporary office for an extended period. They are also suitable for users requiring higher bandwidth to enable applications such as live broadcasting.

SIMULTANEOUS VOICE AND DATA

A single BGAN terminal provides simultaneous voice and data up to 492kbps, enabling you to access the internet or send email, and talk on the phone at the same time.

Global coverage

BGAN is available across the globe, with the exception of the extreme polar regions, providing connectivity wherever your business or operations take you.

RELIABLE NETWORK

BGAN services are delivered via the Inmarsat-4 network, with 99.9 per cent satellite and ground network availability and an operational lifespan expected into the Future.

SECURE

BGAN meets military and government requirements for security and supports all major VPN products and encryption standards.

TOTALLY FLEXIBLE

Supporting the latest IP services, as well as traditional circuitswitched voice and data, BGAN integrates seamlessly with corporate networks and legacy applications.

STREAMING IP AND BGAN X-StreamTM

BGAN supports a range of guaranteed on-demand Streaming IP rates from 32kbps to at least 384kbps, and up to 450kbps with BGAN X-Stream[™].

EASY TO USE

No technical expertise or training is needed to set up and use BGAN. All terminals are plug and play, so you can go online within minutes.

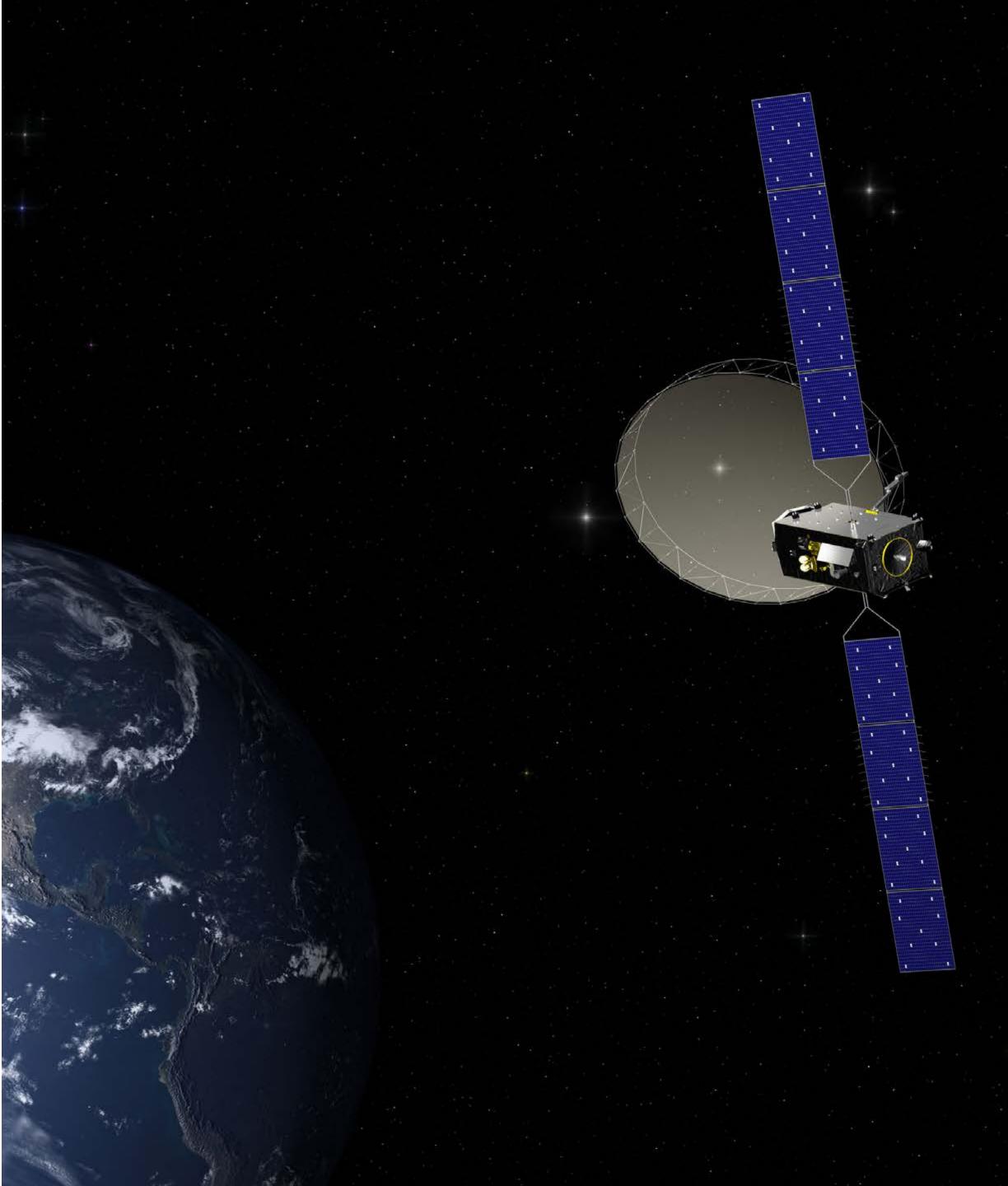
VEHICULAR BGAN

Most vehicular terminals comprise a roof-mountable antenna and in-car unit. Antennas are compact, relatively lightweight and discreet, so as not to draw attention.

The vehicular antenna can be permanently or magnetically mounted to the roof of any suitable vehicle, be it a truck, bus or recreational vehicle (RV).

APPLICATIONS

- Telephone and SMS
- Internet and intranet access
- Email and file transfer
- Video conferencing
- Live video / audio, broadcasting
- Secure VPN
- Encryption
- WAN
- VoIP and remote GSM
- Push to talk







CUSTOMER FEEDBACK

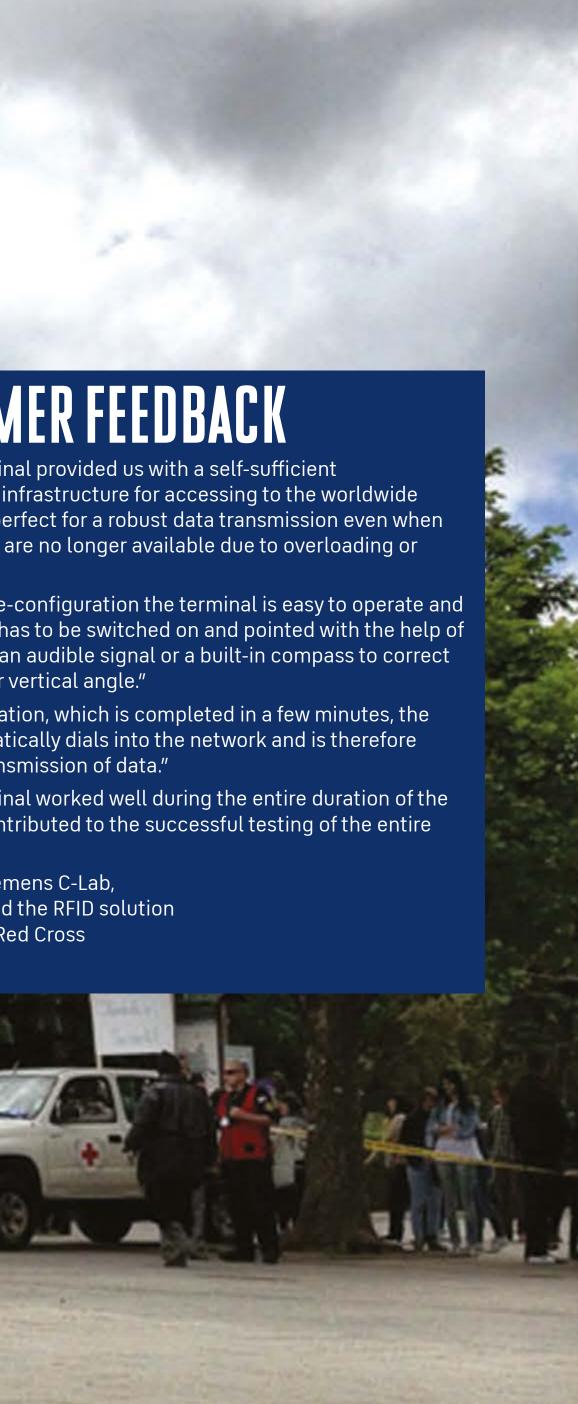
"The BGAN terminal provided us with a self-sufficient communication infrastructure for accessing to the worldwide web, making it perfect for a robust data transmission even when public networks are no longer available due to overloading or destruction."

"After a short pre-configuration the terminal is easy to operate and intuitive. It only has to be switched on and pointed with the help of a visual display, an audible signal or a built-in compass to correct the horizontal or vertical angle."

"After the orientation, which is completed in a few minutes, the terminal automatically dials into the network and is therefore available for transmission of data."

"The BGAN terminal worked well during the entire duration of the exercise and contributed to the successful testing of the entire system."

Eduard Maul, Siemens C-Lab, which developed the RFID solution for the German Red Cross Frankfurt.



COMMUNICATIONS MADE CERTAIN





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