

International Telecommunication Union Deployable Equipment

Workshop on the use of
Telecommunications/ICTs for Disaster
Management: *Saving Lives*

Harare, Zimbabwe, November 2011

Satellite Equipment

Types

1. Broadband Global Area Network - BGAN
2. Satellite Phones
3. CDM Base station

Services

1. Broadband (Voice and high speed data)
2. Voice

Satellite Equipment

Brands

1. Inmarsat

- **Hughes 9201:** single users with high bandwidth requirements , live video or audio, or small teams who need high-speed connectivity for standard internet data applications.
- **Sabre 1 Wideye:** Supports simultaneous voice and data communications for single users.



Satellite Equipment

2. Iridium

- 9505A: Satellite phone, supports voice.



3. Thuraya

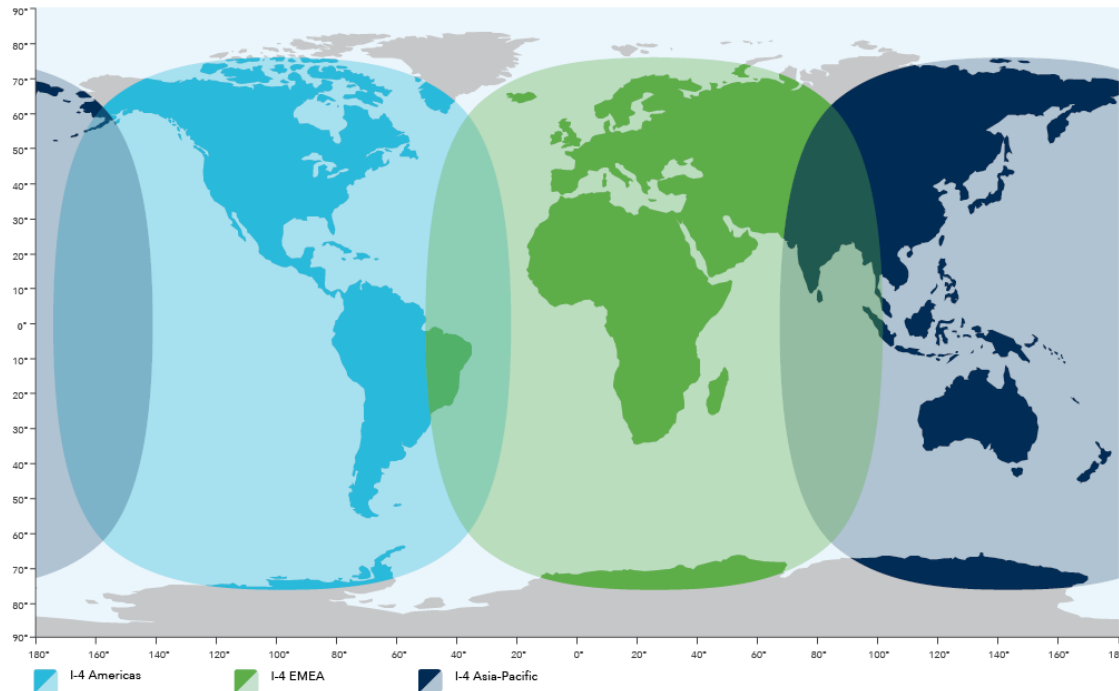
- **Thuraya XT**: supports voice, GPS functionality
- **Thuraya 2510**: supports voice, GPS functionality. One of the smallest satellite phone.



Coverage Maps

Inmarsat: 11 Satellites in a Geostationary orbit at 36 000 Km.

BGAN coverage



This 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. BGAN coverage February 2009.

Coverage Maps

Iridium: 66 satellites in a LEO orbit (Low Earth Orbit) (725-1450 Km)



Coverage Maps

Thuraya: 3 satellites in a Geostationary orbit at 36 000 Km

