



Globalstar

Satellite Communications Services Overview

**UNGIWG Plenary
UN SPIDER Workshop
Bonn Oct. 2009**



Who are Globalstar?

- **Largest provider of Mobile Satellite Services**
 - Over 350,000 subscribers worldwide, in 120 countries
- **42 satellites orbiting Earth in Low Earth Orbit**
- **Nasdaq listed US company. Euro HQ in Ireland**
- **Currently launching €1BN network upgrade**
 - Deliver Data speeds up to an industry leading 256kbps
- **2nd Generation network in 2010-2011**
 - 2nd Gen partners are Thales and Ariane of France



What Services do we provide?

- **Voice Satellite Services**
 - Mobile Handsets
 - Fixed Communications systems for indoor use
- **Data – Two way (Duplex)**
 - via Voice units
 - via Modems
- **Data – One way (Simplex)**
 - via modem for Asset Tracking & Equipment Monitoring
- **Personal Tracking & Messaging**
 - SPOT Satellite GPS Messenger
 - OEM Modules

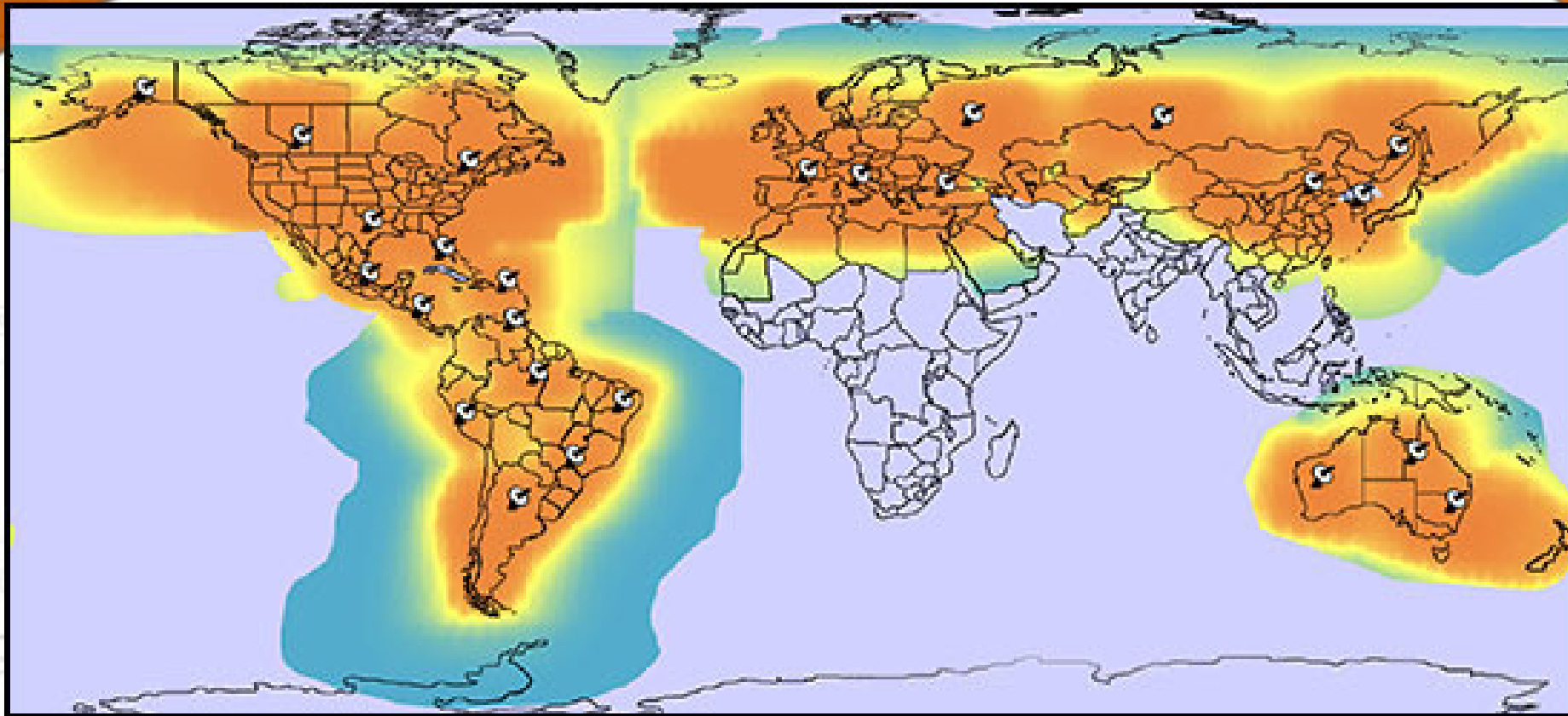


Customers that you know

- **UN High Commission for Refugees**
 - Satcomms & SPOT
- **UN Mission Bosnia & Herzegovina**
 - Satcomms
- **UN Office for Project Services**
 - Satcomms
- **UN Envoy to Iraq**
 - Satcomms
- **Medecins Sans Frontieres**
 - SPOT
- **Organisation for Security & Co-operation in Europe**
 - Satcomms
- **FEMA – US Federal Emergency Management Agency**
 - Satcomms & Data Tracking

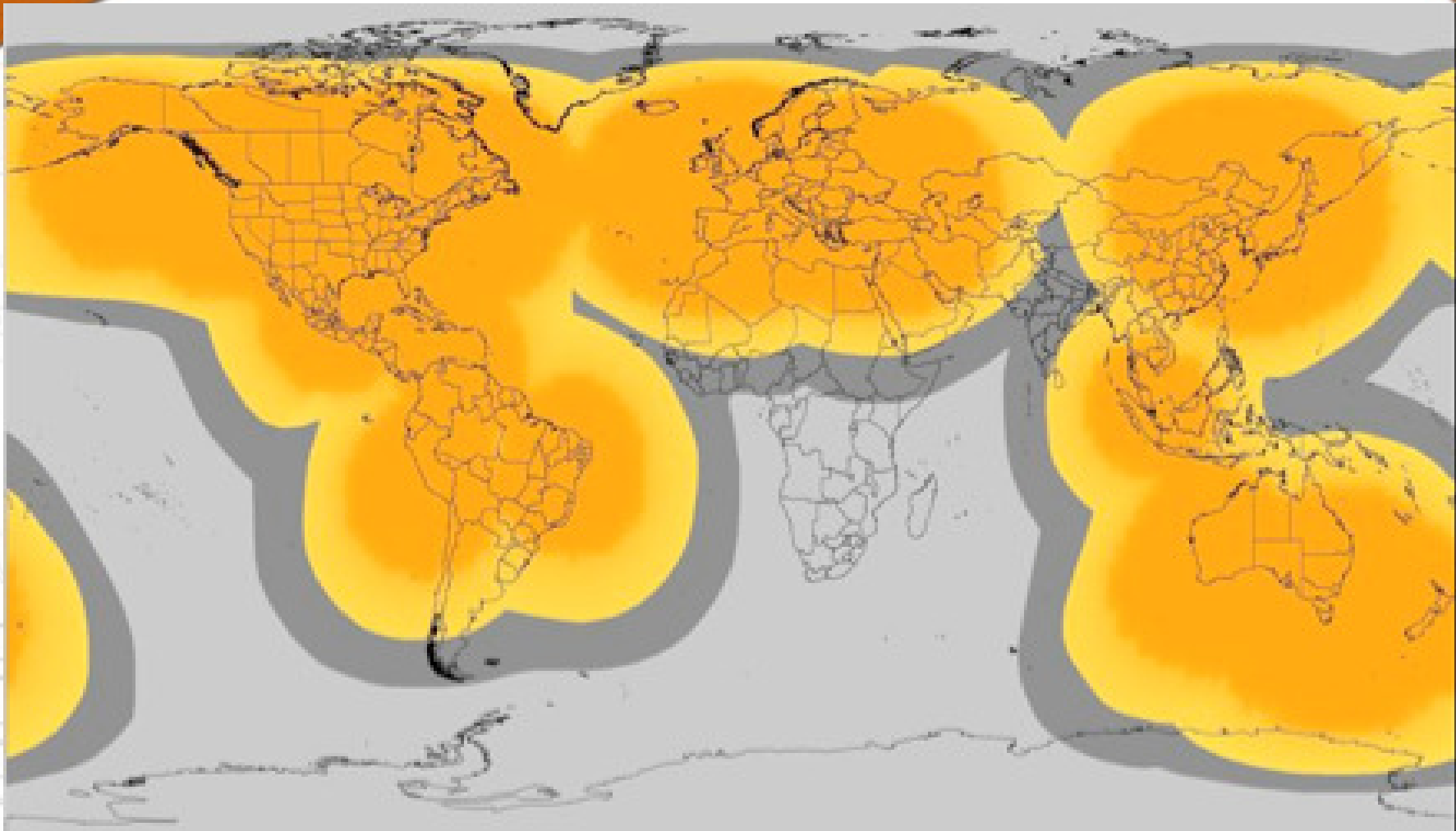


Voice & Duplex Coverage



Coverage between 70 degrees N to 70 degrees S in 120 countries

Simplex & SPOT Coverage



Globalstar

How does it work?



Best Practice Use Cases

- **Remote Telecommunications capability**
 - Mobile and Fixed communications for Voice and Email even when there is no GSM coverage
 - Hub & Spoke system to support Command centres and remote outposts
- **Equipment Tracking & monitoring**
 - Monitoring of location and status of key equipment almost everywhere in the world
 - Live tracking of deliveries eg. Food Convoys
 - Geographical fencing to stop equipment going missing
- **Personnel communications & tracking**
 - Stay in contact in Remote locations
 - Low cost individual messaging capability
 - Track and ensure safety of every team member

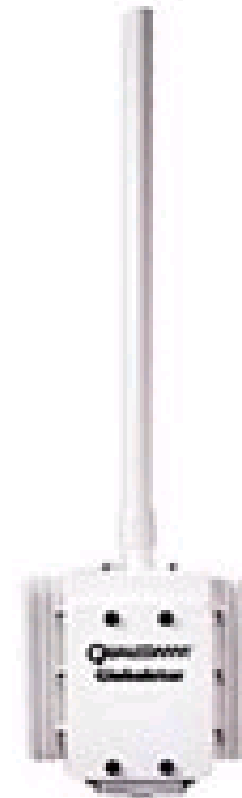


Handsets and Services



**Services available with Monthly Plans and
Pay as You Use.**

Low cost calls and data tariffs



Tracking & Monitoring



Data packages available from one location/status message per day to one message every two minutes



SPOT SATELLITE GPS MESSENGER

RESCUE. COMMUNICATE. TRACK.
COMMUNICATES WHERE OTHER DEVICES CAN'T



CHECK IN - Let your contacts know all is well, or save waypoints for review at a later date. A user-programmable message, as well as your GPS location with a link to Google Maps™, will be sent to your contacts via text and/or email.



TRACK PROGRESS - Send your GPS location to your SPOT account every 10 minutes for 24 hours so your contacts can follow your progress in real time, or to save waypoints so you can view your full route at a later date.



HELP - For non-life-threatening situations, SPOT will automatically determine your coordinates and send your help message, as well as your GPS location with a link to Google Maps™, via text message and/or email every 5 minutes for 1 hour.



SOS - For critical emergencies, a distress signal will be sent every 5 minutes until cancelled and emergency responders will be dispatched to your GPS location.



Thank you

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GSP 1700

Specifications:

- **Dimensions: 135(H) x 55(W) x 37(D) mm**
- **Weight: 200 grams**
- **Talk 4hr / Standby 36hr**
- **Operating Temp: -20 to +55°C**

Features:

- **Single Mode**
- **2.5 mm audio port**
- **USB data cable**
- **Separate power, data & antenna connection**



GSP 2900 – Fixed Phone

Specifications:

- **Dimensions: 510(H) x 80(D) x 210(W) mm**
- **Weight: Approx. 3.3 kg**
- **Power sources: 12V - 3AMP**
- **Temperature range: -30 ° C to +60 ° C**

Features:

- **Supports up to 800 ft. telephone cable**
- **Connect multiple telephone sets (5)**
- **Compatible standard phone equipment**
- **Can be interfaced as a trunk line for PBX**

