

The Role of Mobile Satellite Telecommunications in Disaster Communications

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Role of Thuraya



- ❑ Thuraya is a trendsetter in the area of convergence of different technologies in the field of Satellite Communications;
- ❑ Thuraya terminals incorporate both the satellite mode and the currently most prevalent cellular standard GSM along with the capability to provide location update through inbuilt GPS receiver;
- ❑ The Thuraya Satellite System supports Voice Communications, Facsimile, Low and High Speed Data, GPRS based services (near future), GPS capability, etc;

Multi mode handheld terminals Translates into multi purpose utility

Role of Thuraya

Thuraya facilitates its customers by providing the following:

- ❑ 100% connectivity within the coverage area;
- ❑ Single Universal Number;
- ❑ Roaming in around 160 GSM networks (more are under process);
- ❑ Affordable Call rates;
- ❑ Customized solutions for different environments (Home/Office and Vehicular docking units, maritime units, etc;

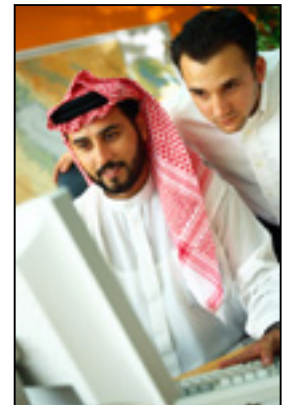
Role of Thuraya – Effective & Flexible Mobile Communications

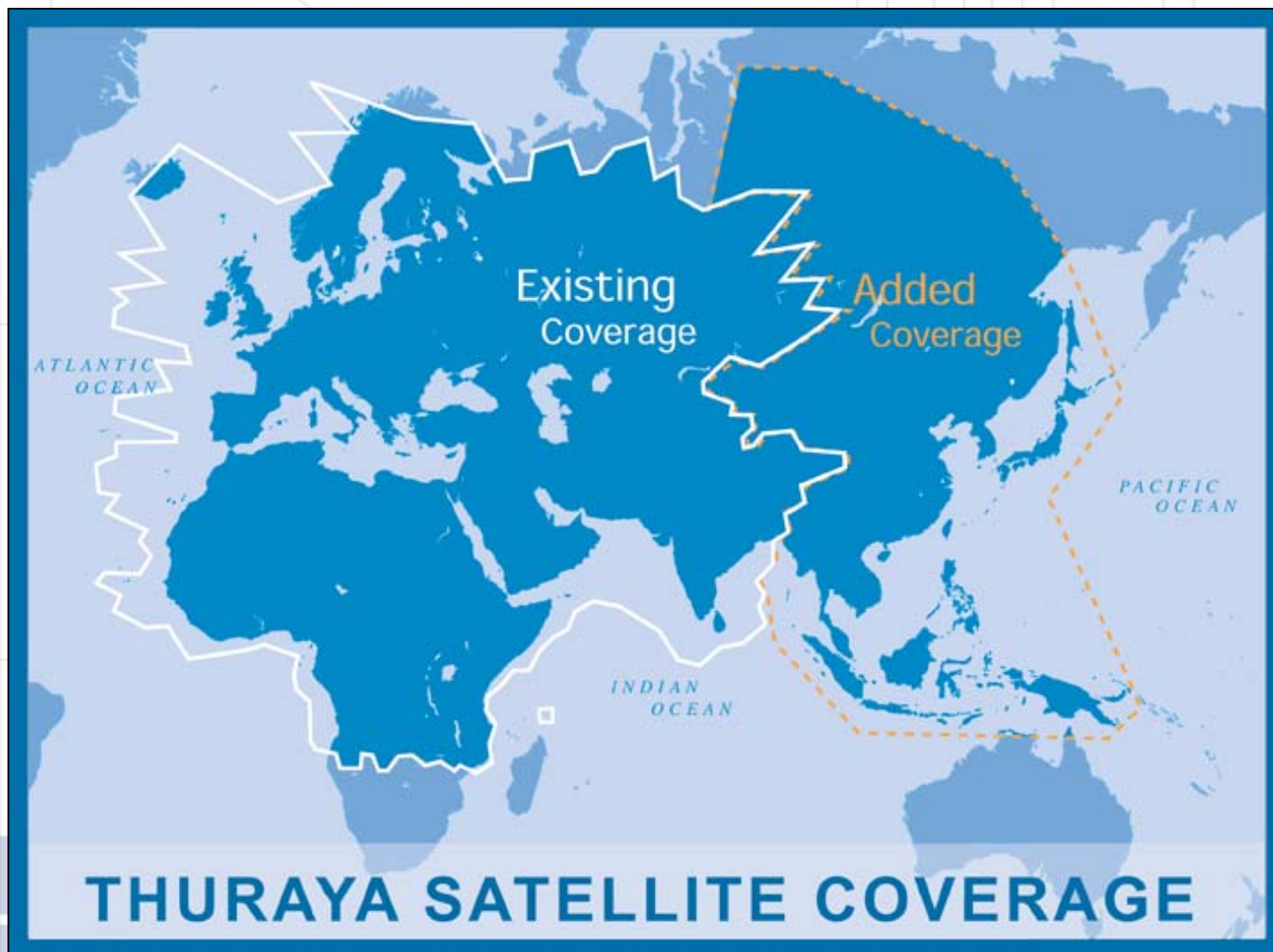
- ❑ Thuraya complements Terrestrial Cellular Mobile Telephony by extending the reach of communication links to areas that does not have existing telecom infrastructure including remote and hilly areas, deserts, maritime, etc;
- ❑ Thuraya provides the additional flexibility in movement of the users in a vast geographic region irrespective of GSM coverage



The role of Thuraya – Local Presence

- ❑ Thuraya has local Service Providers / Distributors in most of the countries within its coverage area thereby providing customer support in close proximity;
- ❑ Thuraya has commercially operational roaming agreements with mobile operators in around 90 countries (as of now) enhancing the effectiveness of mobile communications;





Workshop's Objective

- ❑ to identify the potential uses and benefits of satellite-based communications in disaster management by reviewing current capabilities and successful projects;
- ❑ to identify ways to overcome the obstacles that prevent countries, particularly developing countries, from using satellite-based communications during natural disasters and;
- ❑ to recommend effective steps that the industry and Member States could take together in order to enhance the use of satellite-based communications in managing natural disasters.

Emergency Communications/Disaster Relief

- ❑ Mobile satellite communications is an effective tool/ solution in the event of an emergency due to any kind of disaster;
- ❑ Mobile satellite telecommunications is a viable and effective alternate to terrestrial communications in case these are disrupted or unavailable;
- ❑ Reliable and flexible telecommunication link is a must for humanitarian relief and assistance agencies;
- ❑ Fast and accurate location is the key;

Thuraya System Capability in an Emergency / Disaster Scenario. How could we help?

- ❑ The system provides the flexibility to accommodate changes in Thuraya's traffic by means of a re-programmable payload in the satellite;
- ❑ This flexibility supports modifications to the satellite's coverage area after launch and optimization of performance over geographical areas where high traffic demand exists;
- ❑ Therefore in case of an emergency, Thuraya has the capability and flexibility to easily meet the traffic capacity requirements arising out of such an emergency situation.

Thuraya Handheld Terminals



Hughes-7101



HNS-7100



ASCOM-21

Accessories



**Travel
Charger**



Battery



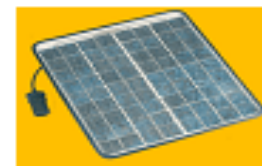
**Car
Charger**



**Software
Package**



Earset



**Solar
Charger**

Thuraya Role in Disaster Communications



Thuraya terminals / system provides an effective and efficient means for Emergency Communications due to the following:

- 100% percentage coverage within the satellite service area irrespective of the terrain and location;
- No terminal deployment and setup time;
- Light weight and easy to carry;
- Rich features built in the Thuraya handset;
- Location determination;
- Customer support in close proximity;
- Customized solutions including fixed and vehicular docking unit, maritime terminals, etc.

Thuraya Role in Disaster Communications (*cont'd*)



- All necessary accessories are available that are required in case of emergency / disaster relief (solar charger, etc);
- Data transfer capability and internet access through laptop (High speed data transfer based on GPRS will be available in the near future);

Location updating / information

The location information (GPS coordinates) through a Thuraya terminal could be send either through a:

- Voice Call; or
- SMS (to any Thuraya and/or GSM number).

A call (voice or messaging) will only be initiated once the location information (GPS coordinates) is updated and the location information could be send simply through punching the keypad.

The Thuraya terminals could store the last locations acquired through GPS and these could be also easily communicated

THURAYA in emergency situation. **YES** we could help.

- Able to provide services within its coverage with Zero Lead Time. There is no further infrastructure work required.
- Equipped with GPS in its terminal
- Thuraya is a “cellular network” with its own international code
- Satellite Network readily accessible within a large coverage area
- Having very advanced Intelligent Network



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We help people get connected.....Thank You...