



## Solution Sheet

# IPSTAR Disaster Recovery and Emergency Communications

## Reliable Communication Networks for Governments and First Responders

The IPSTAR product and solution portfolio is designed to meet the precise needs of first responders in putting communication networks back on line in the event of natural or man-made disasters

Just when needed the most, terrestrial and cellular networks can be among the first casualties of a disaster. Ground infrastructures, like phone lines and cable systems, can be entirely destroyed or damaged from an unanticipated disaster – rendering previously trusted communication services useless.

Communication outages caused by unexpected disasters can occur in short notice, and oftentimes without warning. The time it takes to restore damaged telecommunication lines due to disasters may require days or even weeks, leaving businesses and first responders crippled without access to reliable communications. The lack of operable terrestrial infrastructure severely impedes business

operations, and most importantly, the relief and recovery efforts of the first responders.

### Disaster Recovery and Emergency Communications with IPSTAR Backhaul

Establishing a communication link is a major enabler for the continuity of business operations, and for the management of humanitarian aid and emergency response operations in any disaster event.

Unlike terrestrial networks, satellites are completely immune to catastrophic events – such as earthquakes, typhoons and landslides. Satellite platforms, like IPSTAR, can step-in to fill the communication gap as a result of crippled terrestrial lines.

### Benefits

**Terrestrial Infrastructure Backup**

- Backup for congested networks during terrestrial line outages

**Temporary Network Solution**

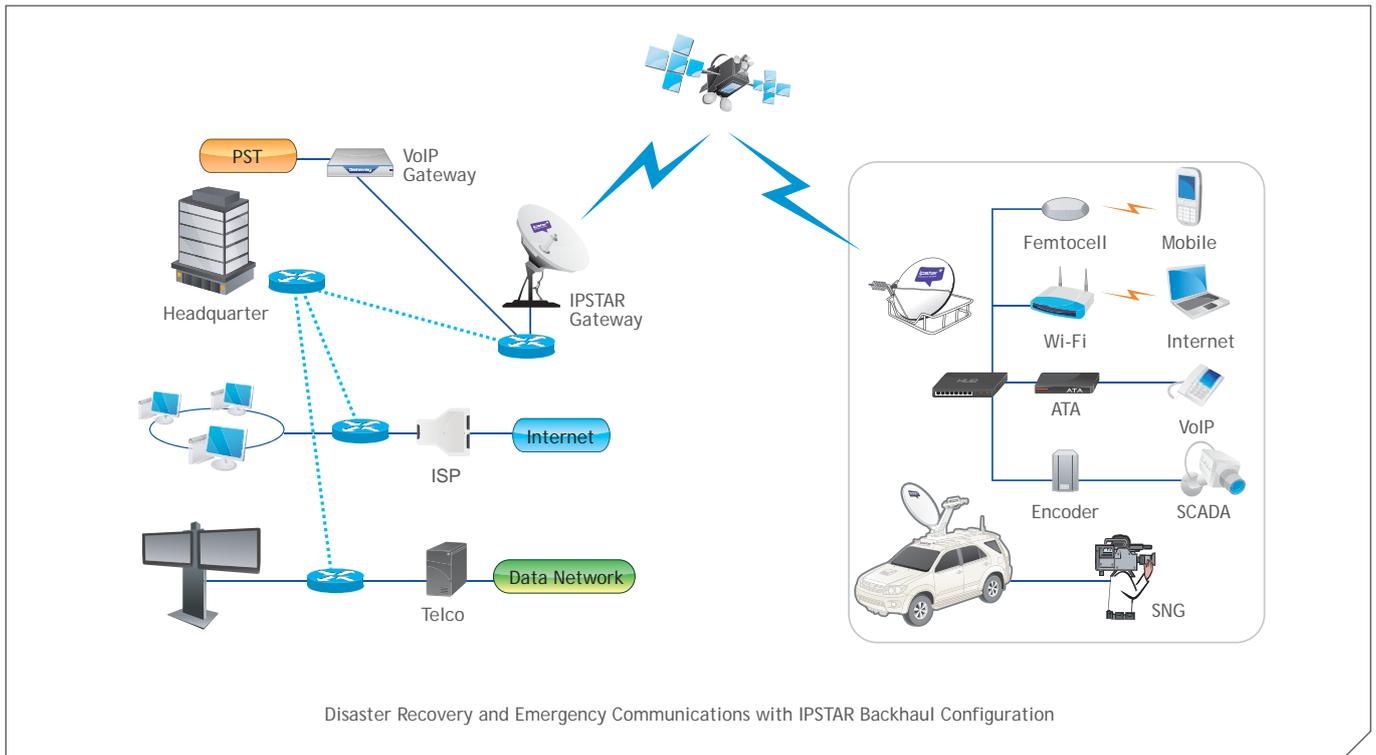
- Short-term broadband solution for mission-critical IP-based applications

**Fast Deployment**

- Rapid installation in disaster-affected areas

**Seamless Integration**

- Mission-critical voice, video and data applications in a single IPSTAR link



IPSTAR can be deployed in heavily affected areas to provide businesses and first responders with broadband Internet, Voice over Internet Protocol (VoIP) and Satellite News Gathering (SNG) services. Moreover, IPSTAR can contribute to Disaster Risk Reduction (DRR) by enabling Supervisory Control And Data Acquisition (SCADA) systems for water level or flood monitoring – before and after a disaster strikes. Aside from these applications, it can also serve as communication backup in the hours, days and weeks following the disaster – providing affected communities with telecommunication services that terrestrial networks no longer can provide after the disaster.

### Reliable On-ground Technology

All IPSTAR products are designed in compliance with the IPSTAR system specifications. Fully IP compatible, the IPSTAR platform is capable of interfacing a wide range of network applications, utilities and hardware. In addition, it enables cost-effective and rapidly deployable point-to-point or point-to-multipoint satellite communications for critical disaster missions.

IPSTAR employs a small-sized antenna and energy-efficient user terminal – making it possible for businesses and first responders to use solar panels, generators or batteries as a power source during lengthy electricity outages.

ing (SNG), and Supervisory Control and Data Acquisition (SCADA). IPSTAR was used to assist relief mission teams on their search and rescue operations, and to keep them updated on the extent of damage caused by the earthquake. It also helped reunite families, reconnect communities, and let the world witness the devastation of the disaster – also the many acts of heroism.

For many disaster survivors and first responders, IPSTAR served as the only source of communications in the hours, days, and weeks following the event – providing connectivity that terrestrial networks could no longer provide after the Sichuan earthquake.



### Case Study: Aftermath of Sichuan Earthquake

Within hours after the devastating 8-magnitude earthquake which hit Sichuan Province in May 2008, IPSTAR user terminals were deployed in heavily affected areas to enable services like broadband Internet, Voice over Internet Protocol (VoIP), Satellite News Gather

#### About IPSTAR

THAICOM-4 (IPSTAR) is the world's largest and most advanced commercial satellite serving up to 10 million users in Asia-Pacific. The breadth of the satellite's geographical reach in the region – covering an area inhabited by 4 billion people or roughly 60 percent of the world's population – positions IPSTAR as the preferred gateway in 14 countries across Asia-Pacific. IPSTAR has achieved a critical milestone in its pursuit to bridge the digital divide in the region. With a combined 100,000 subscribers in Australia and New Zealand alone and still growing, IPSTAR has become the single largest VSAT network operator in both countries. Across the region, IPSTAR has sold nearly a quarter of a million user terminals.

For more information, visit [www.ipstar.com](http://www.ipstar.com).

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