



## Applications :

- > Flow metering and pipe line control
- > Well monitoring and control
- > Remote facility monitoring
- > Smart Grid
- > Load management
- > Power quality monitoring
- > Storage tank monitoring
- > Tower monitoring
- > Vehicle Tracking

## SCADA services

### Remote monitoring through satellite communications

Satellite platforms that provide regional or global coverage in isolated areas are becoming increasingly important. These reliable platforms offer single-network implementation that does not rely upon existing cellular terrestrial infrastructure, which have proven vulnerable in extreme weather conditions.

SCADA (Supervisory Control and Data Acquisition) is a networked system that collects data from various sensors on mobile, or unmanned fixed sites, and transmits critical information to a centralized computer for analysis, management and control. SCADA communications are generally low bandwidth to support small (<100) to large scale (>1000) deployments.

### Manage remote assets

Satellite SCADA solutions are suitable for organizations that manage remote assets and need real-time critical data. With today's modern satellite solutions designed specifically for SCADA applications, more and more companies within oil and gas, utilities, environment, government, transportation and manufacturing sectors are turning to satellite SCADA solutions.

### Complete communications portfolio

SCADA requirements vary based on the environmental conditions, the amount of information required to transmit, and the availability of power. Inmarsat is the only operator that offers a complete range of satellite SCADA solutions to meet any remote monitoring application.

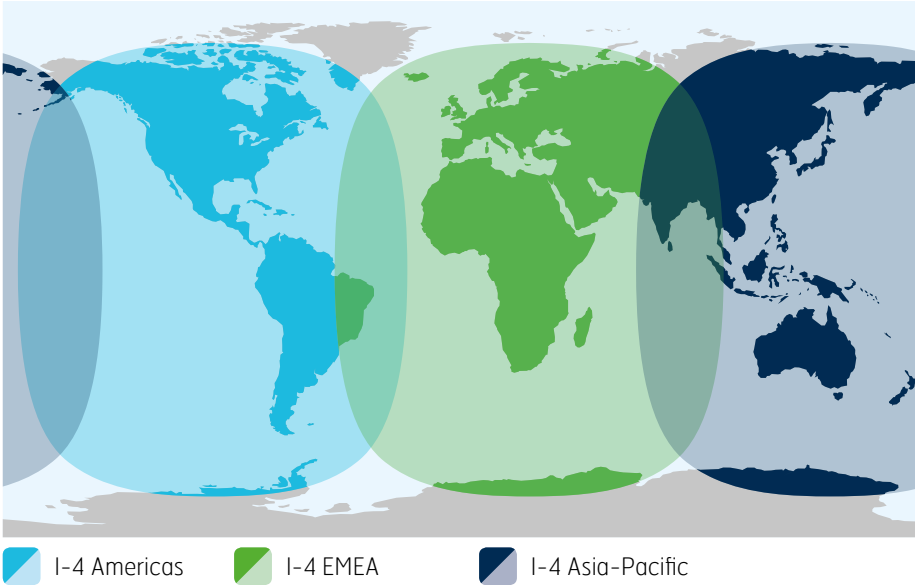
- > **IsatData Pro (<50KB)** A low data rate next generation satellite service. It is ideal for tracking, monitoring and security solutions for land transportation, maritime, oil and gas pipelines, security and smartgrid utilities sectors. It features low power consumption, and compact and rugged IP67 rated terminal delivering seamless global coverage.
- > **BGAN M2M (50KB – 50MB)** A new generation of services designed specifically to fill the mid data rate gap, making it ideal for SCADA applications. The Hughes 9502 is a low power terminal that has been enhanced with remote management features such as IP watchdog, remote SMS control.
- > **BGAN SABRE Ranger (>50MB)** A BGAN terminal built for permanent, remote, unmanned SCADA applications. Its rugged design allows it to withstand all weather environmental challenges. The Ranger is suitable to high bandwidth solutions.

IsatData Pro	BGAN 2M	BGAN, Ku Vsat
0KB - 50KB	50KB - 50MB	> 50MB
IP	TCP/IP	TCP/IP



## Global coverage

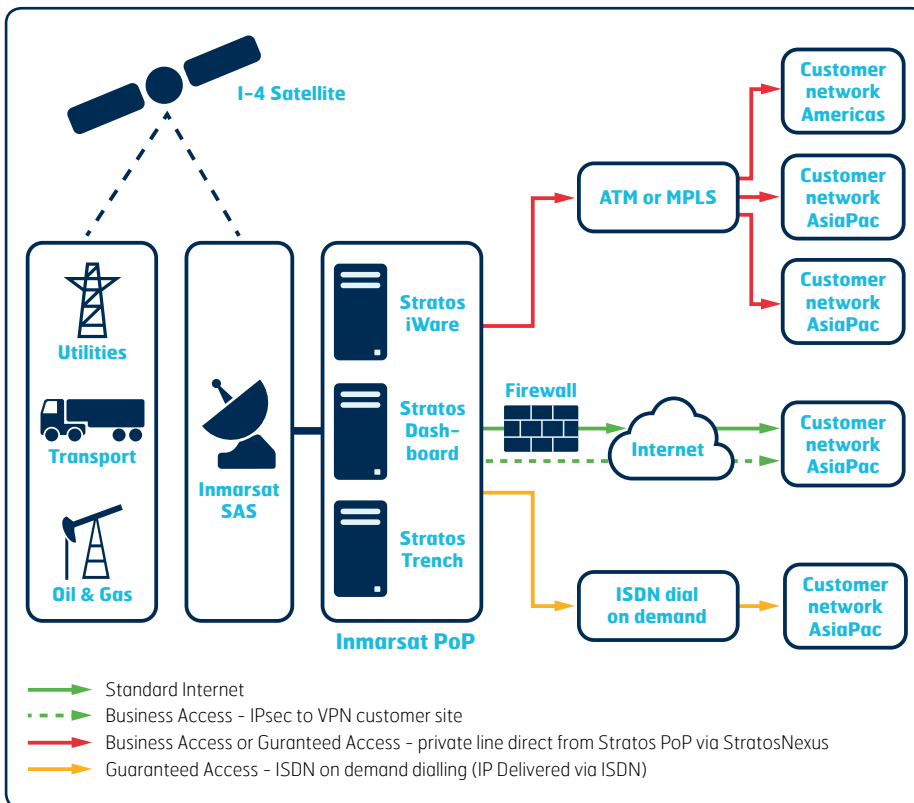
Our award-winning Inmarsat-4 satellites and ground network provide global coverage.



The 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.

## Secure and reliable network

Our satellite network operates at 99.9% availability, with an expected operational life into the 2020s. Our secure terrestrial network seamlessly integrates traditional and IP-based transmission systems in one platform.



## The Inmarsat Advantage

Inmarsat delivers a full portfolio of value-added SCADA services that provide users with cost control, firewall management, full traffic information, high security options, easy VPN access, and flexible IP options.

### Dashboard

- > Real-time voice and data traffic to help monitor and control costs.
- > Instantly activate, deactivate and change service configurations.
- > Unified Threat Management system provides internet security solutions such as personal firewall, website filtering, application filtering, intrusion protection and bandwidth throttling.

### Stratos iWare

- > Scalable, Internet-based SCADA monitoring service.
- > Automatically transmits polling data in real time across Inmarsat's network to our global data centers.
- > Raw field data is stored in secure databases.
- > Users can access the data and translate it into meaningful information via the many reporting functions available.

## How to buy

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