



A new, global satellite communication solution for simple, secure, cost-effective IoT connectivity

KEY FEATURES

- Managed IoT connectivity service with global coverage.
- Two-way secure satellite communication optimised for IoT
- Guaranteed QoS and 24x7 technical support.
- Small, low-power and secure satellite terminals.
- Web portal and API to configure and manage subscriptions and terminals.
- Pay-As-You-Grow monthly subscription fee with low/zero investment required.
- Complementary to other IoT networking technologies.

As the market for Internet of Things (IoT) and intelligent connected objects takes off, applications that exchange data with remote devices are increasingly part of our daily lives. Their uses range from traditional industrial Machine-to-Machine applications, such as metering and remote monitoring for power plants and oil & gas pipelines, to new IoT applications for the environment and Smart Cities, such as monitoring public lighting and air pollution alerts.

Whether the data is gathered locally with wired or wireless technologies, via local gateways or store-and-forward mechanisms, information from remote sites must be backhauled to data centres, private/public cloud, etc. for centralisation. Network operators need a reliable solution to connect these widely dispersed sites and backhaul critical data cost-effectively and rapidly

Eutelsat has developed the Smart IoT Service, an innovative managed connectivity service, dedicated to IoT communication. Leveraging satellite technology, it is ideally suited for connected applications which exchange data with remote assets or infrastructure.

Smart IoT enables seamless connectivity in rural and sparsely-populated areas. Enterprises can connect remote assets and deliver highly reliable IoT communications beyond terrestrial network coverage. Network operators can extend their IoT coverage independently of local borders, achieve 100% coverage profitably for low-power wide-area networks, and relieve IoT traffic from congested cells currently backhauled via LTE

In addition to satellite's traditional advantages of ubiquitous, secure and resilient communications, Eutelsat now offers a very cost-effective managed connectivity service, which runs on inexpensive satellite terminals. Using dedicated satellite bandwidth with guaranteed QoS, and a network fully dedicated to the service, the robust solution is not disrupted by congestion or jamming.

Satellite communication also enables enterprises to deliver large amounts of data (e.g. firmware/software upgrades) to many remote sites, both simultaneously and economically, through broadcasting.

How it works

The Smart IoT Service is based on the SmartLNB technology, developed by Eutelsat. This consists of an IP network composed of a SmartLNB hub, satellite segment, and remote interactive satellite terminals.

A typical remote installation requires a SmartLNB terminal, with an external or integrated antenna, which provides a bi-directional IP link over satellite that is optimised for IoT traffic on the return link.

The Smart IoT Service uses standard protocols for straightforward integration with the enterprise's remote assets/infrastructure and IoT applications.

Communication between the hub and interactive terminals is controlled at the physical and link layer by the F-SIM protocol

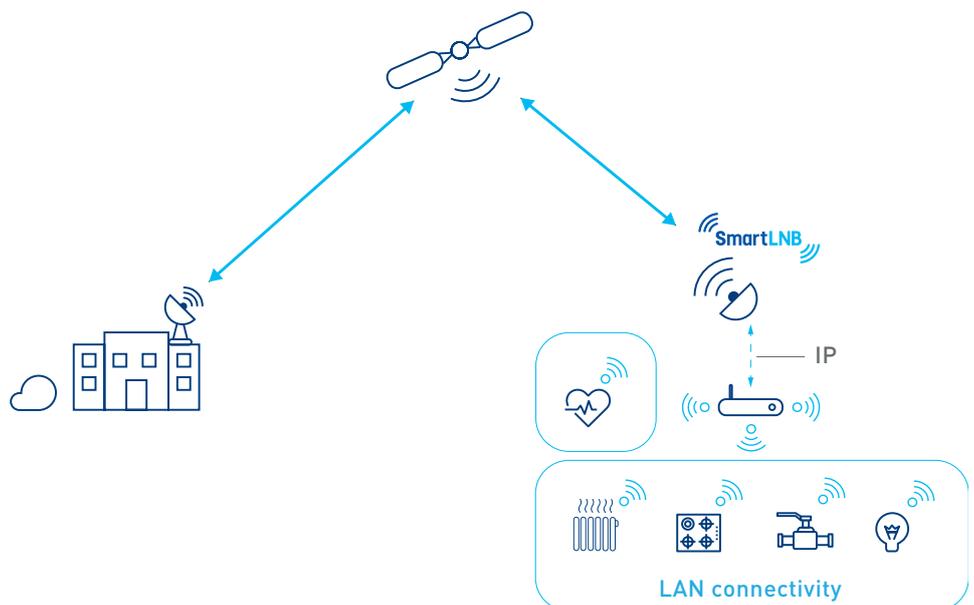
based on an asynchronous access scheme whereby all terminals in the network spread the traffic on the same channel bandwidth, resulting in very high spectrum efficiency.

The Smart IoT Service proposes a wide range of terminals with cost-effective satellite bandwidth on Eutelsat's worldwide satellite footprints. These low-cost satellite terminals have a minimal power consumption, even in transmission mode. Their installation, pointing and activation are simplified by a series of user-friendly support tools.

Eutelsat's Smart IoT Service is already available in Europe, the Middle East, Africa and the Americas, and under deployment in other regions.

Connectivity for:

- M2M
- IoT backhauling
- Smart Building and Security
- Smart Grid
- Smart Agriculture
- SCADA
- Remote diagnostics and telemetry
- Firmware and software updates
- Environmental monitoring
- Wireless Sensor Networks
- Data gathering
- e-Health



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