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TELEMETRY

SATELLITE M2M-IOT SOLUTIONS

Machine to Machine (M2M), or Internet of Things (IoT) WAN communication has been gaining popularity in a number of industries during recent years, particularly in the security and the utilities sectors.

M2M or SCADA (Supervisory Control and Data Acquisition) are key technologies that enable more accurate and cost-efficient control over remote facilities. One of the main drivers for this development is the evolution of IP based wire-line and wireless platform technologies.

Previously, satellite data communication solutions were somewhat limited in terms of cost-effective service delivery and hardware platforms. This has now changed with the development of High Throughput Satellites.

KA-SAT's future proof broadband technology is offering more capacity at a competitive price - thus enabling technologies and applications - not possible via satellite in the past - to be deployed across Europe.

KEY ADVANTAGES

- Affordable, high performance and reliable service
- Speeds up to 22 Mbps
- Availability across Europe, parts of North Africa and the Middle East
- Low cost satellite terminals
- No need for investment into own infrastructure
- Standard or Ad-hoc deployments

KA-SAT offers the utilities sector:

- Bi-directional IP-traffic
- TCP/IP and UDP/IP support
- Dedicated or best-effort bandwidth
- Connection to Eutelsat Broadband fully redundant fibre-ring and Internet POP's

- Telemetry service tariffs
- Voice over IP option
- IP multicast option
- Video Surveillance option
- Static IP addresses

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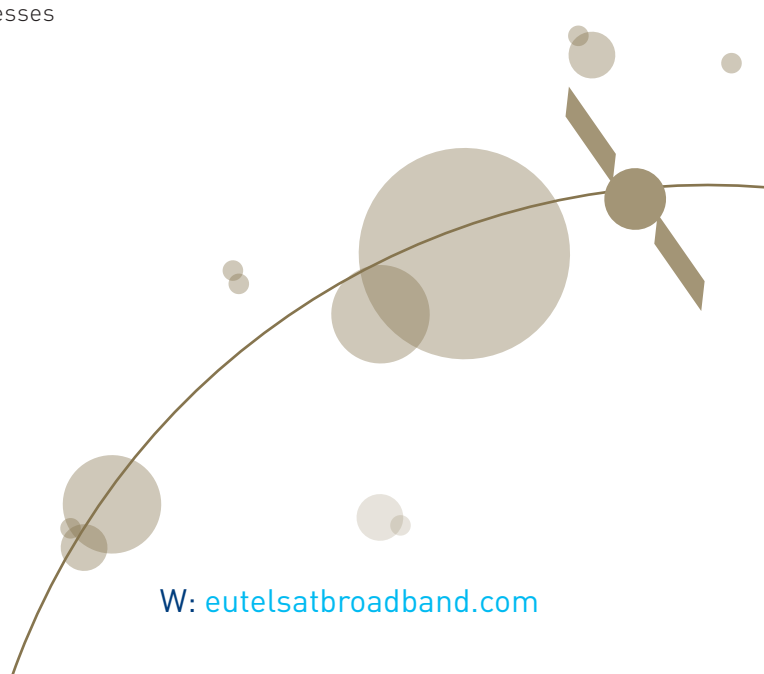
KEY MARKET SECTORS

- Oil and Gas
- Utilities
- Energy
- Government

DEPLOYMENT SCENARIO

KA-SAT provides WAN connectivity between centralised operations and data centres, which provide readings from meters, sensors and other devices on remote sites.

Users have the choice of using state-of-the-art M2M or IoT networking options like Zigbee or Powerline, which can be connected to the satellite terminal using a standard Ethernet port or Wi-Fi connection.

This simple set-up can provide straightforward, flexible and effective deployment across a number of remote sites. The central operations and data centre can be connected via an open internet connection or with a closed and dedicated link to the **KA-SAT** network at one of the Internet POP locations.

In addition, Eutelsat has also certified solutions for protected VPN interconnections provided by partners like OneAccess or technology provider Viasat.

The figure below illustrates the generic set-up for this usage scenario.

ADVANCED MODEM

- Metal box IDU
- 77cm/3W or 120cm/4W ODU
- Dual processor
- Layer 2/3 capability
- 45W electrical power usage

Inter GW Backbone

Operations and Data Centre

Single Remote Device
(e.g. electrical transformer)

ZigBee

Wireless Meshed Network
(e.g. ZigBee)

Smart Metering PowerLine network

IEEE

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