

# DELIVERS PROFITABLE GSM/3G ACCESS TO UNDERSERVED COMMUNITIES



## FULLY INTEGRATED, LOW COST VOICE AND DATA INFRASTRUCTURE FOR FIXED AND MOBILE SERVICES TO UNDERSERVED COMMUNITIES

ViaSat is enabling mobile network operators (MNOs) to deliver GSM/3G voice, messaging and data services for mobile and fixed applications to underserved communities. The fully integrated cellular network with satellite backhaul can quickly extend an existing operator's infrastructure or create a greenfield network. For the first time, mobile operators are equipped to deliver profitable and sustainable services to underserved communities using a distributed architecture model connected via low-bandwidth, low-power remote VSAT infrastructure. The system interoperates with existing GSM/3G management systems and facilitates roaming and MNO inter-working.

### SERVICES

Services available to underserved communities include:

- » GSM mobile and/or fixed line voice
- » SMS messaging—supporting mobile banking
- » 3G/GPRS/EDGE data

### BUSINESS BENEFITS

- » Solar power enabled
- » Immediately deliver essential services to off-grid green sites
- » Ideally suited to micro-financing and universal service initiatives

When compared to the cost of extending traditional cellular networks with fiber, microwave or SCPC VSAT back haul, this complete end to end solution significantly reduces the capital and operating costs.

Makes low ARPU sites profitable.

### KEY ADVANTAGES

- » Highly efficient, circuit switched satellite backhaul
- » Flexible, scalable deployment options, 1-6 TRX, Omni or sectorized antennas
- » Compatible with full meshed DAMA IP based systems
- » Modular, easy to deploy with minimal planning
- » Fully integrated GSM/VSAT network control
- » Local calls require no satellite traffic bandwidth
- » All-outdoor enclosures, IP66 rated, capable of wall or pole/tower mounting
- » Efficient solar-powered GSM nodes
- » Packaged in a single crate
- » Easily installed by non-technical staff with basic training
- » Extremely low capital and operating expenses
- » Lowest per minute communication costs
- » Meets the diverse needs of underserved communities

