

UTILISAT™

SatCom Solutions for the Utilities



Remote Asset Management Just Got Easier.



Affordable **REMOTE ASSET** Communication and Protection

Utilities with difficult to reach remote assets can now maintain reliable communications with these assets no matter where they are located. TAV Networks UtiliSat™ combines satellite connectivity with software, sensors and security hardware to ensure that you know how these assets are functioning within your network and whether they are safe and secure.

Meters, substations and other remote assets located in even the most remote areas can communicate to your network with UtiliSat™. UtiliSat™ has you covered.

- *Extend the reach of your network*
- *Reliable and affordable satellite connectivity*
- *Reduce service calls and outages*
- *Protect assets and enhance security*
- *Reduce management costs of assets*
- *Seamless integration with utility AMI and DA networks*
- *Ideal for remote substations, meters and other assets*

1-707-415-1000



www.TAVNetworks.com

4576 East 2nd St. Ste. G | Benicia | CA 94510
sales@TAVNetworks.com

UTILISAT™

Bring Your Network Assets On-Line



SATELLITE CONNECTIVITY COMES OF AGE

Satellite solutions are now viable alternatives for utilities to stay in touch with remote assets. The technology for reliable coverage and great performance in virtually any terrain or adverse weather condition is here. UtiliSat's™ satellite terminals augment your wired and cellular networks to ensure full coverage of your assets.

REDUCED COSTS AND OVERHEAD

Many customers are surprised at how affordable satellite services have become. Starting at only a few dollars per month per access point, the cost of full satellite connectivity can greatly reduce operations budgets for utilities managing remote assets.



AFFORDABLE ASSET PROTECTION AND SECURITY

For many utilities, remote assets operating outside of the network are the most expensive and highest risk assets in their systems. Some assets, such as remote meters, require utilities to use up precious resources just to read a few meters, wasting time and money. Remote substations represent enormous investments for utilities and are particularly vulnerable to security risks, damages and outages.

PREVENT VANDALISM AND SECURITY VIOLATIONS

When security infractions occur in remote locations, every minute matters to alert local authorities and provide technical asset support. UtiliSat™ offers a unique, highly-compressed video stream and intrusion sensors that alert to security threats within the perimeters of your property. This added layer of security is particularly important given the increasing federal and state mandates for protecting the core electrical infrastructure.

Advanced Technology

- *IP-based networking*
- *Two-way send / receive connectivity*
- *Embedded application protocols (e.g. DNP3)*
- *Compatibility with AMI, DA, SCADA networks*
- *Low-latency for instant message transfer*
- *Real-time monitoring with 1 second delays*
- *High reliability even in harsh weather conditions*
- *Low service costs with bandwidth-efficient networking*
- *Embedded commercial GPS*
- *Push-to-talk voice*

Applications

- *Automated Metering (AMI)*
- *SCADA networks*
- *Line sensors / line monitoring*
- *Outage management*
- *Power distribution and transmission monitoring*
- *Smart grid communications*
- *Emergency warning communications*
- *Mobile workforce applications (PTT voice and data)*

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