UTE
Montevideo, Uruguay

Case Study

THE CUSTOMER

Prominent Uruguay electricity utility, UTE (Administración Nacional de Usinas y Trasmisiones Eléctricas) relies on a TaitNet TN5100 MPT 1327 trunked radio network for effective communications over their operational area.

SITUATION

UTE already had a TaitNet T1540 trunked radio system with three sites, which was serving them well. However, they wanted to expand the system to cover a total of 17 sites, which meant they needed a system upgrade to Tait Communications premier TN5100 MPT 1327 network product.

The cost of linking the additional sites was going to be high so UTE asked for a more cost-effective linking solution. UTE had an extensive digital network but with limited bandwidth to some of their more remote sites.

RESPONSE

The solution proposed was Voice over IP (VoIP). It allowed the trunked radio system voice and data to use the limited bandwidth available. Careful design and extensive testing at the factory ensured that the network operated as expected using VoIP.

The TaitNet sites include Cisco VoIP routers with E&M interfaces, and a two-port Ethernet to RS232 serial server. The serial server allows communication between the TaitNet node and the Site Management Module at 9,600 bps.

Voice calls are routed from the sites, over the IP network to the central router. This router interfaces to the TN5100 switch over E1 using the T1561-30 E1/

T1 card. The Central Node has two active T1541 controllers – one is configured as a standby and is brought into service as needed by reconfiguration of the IP network.

OUTCOME

UTE now owns a TaitNet communications system which meets their requirements for cost-effective, reliable and efficient communications.

As well as improved operational communications, the TN5100 TaitNet system enables more efficient administration of the system. In addition, the network upgrade to TN5100 improves call set-up times and allows much easier expansion, as UTE's communications needs grow.

MORE INFORMATION

For news, product specifications, comprehensive technical information and contact details of your nearest Tait service facility, please visit www.taitradio.com

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Tait is a global leader in designing, delivering and managing innovative communication solutions that help utilities and public safety organizations to keep the lights on and communities safe.