Corporate networking on remote mine sites

While productivity and automation applications gain attention, the effective delivery of the required data and voice services remains a challenge for many remote operations. Datasat provides reliable, high performance networks that create a single infrastructure for all corporate networking requirements of mine sites – regardless of location.

Fast, accurate data analysis and robust communications systems are critical to safe, secure, reliable operations. With staff and sub-contractors working and lodging onsite, there is a need for a single multi-service infrastructure for a range of corporate, productivity and social applications.

Multi-service networks

Employing unique IP layer intelligence, with layer 3 policy management, Datasat's system enables network managers to implement different levels of priority for different users, devices, organisations or user groups. This means multiple public and private networks can operate over the same network infrastructure without impacting the integrity or performance of the network as a whole, and without compromising the security or performance of critical or confidential traffic flows.

Multiple user communities can share the infrastructure in a defined geographic area. Mission critical traffic can be ring-fenced from guest, subcontractor and employee traffic. Wireless coverage can even be extended into neighbouring communities for community access programs.

› Key Features

- End-to-end network – based on the most efficient combination of satellite, wireless and fibre technologies – to meet each remote location

- Wider coverage requiring fewer Access Points than standard WiFi infrastructure.

- Rugged vibration-tested climate-proof military standard equipment developed for challenging outdoor environments.

- Enables employee, contractor and enterprise traffic to share the same network, effectively and securely segregating confidential or mission-critical 'Enterprise' traffic.

- Shared and dynamic bandwidth allocation to cost-effectively deliver performance to corporate and productivity applications on the remote site

- Datasat-delivered mVoIP technology support provides coverage in areas where little or no mobile coverage is present.

- State of the art link sharing techniques intelligently allocate bandwidth according to the network priorities, airtime demands and other changes in the radio environment to deliver superior performance.

- Network optimised for HD video and audio service delivery to laptops, TVs, mobile devices and large screen displays.

WLAN has played an increasingly important role in supporting this type of mission-critical closed user network. It has proved itself to be flexible, rapidly deployable and able to deliver significant networking as well as operational cost reductions. Once a point-of-presence is established by satellite or other core technology, a WLAN access network can be provisioned swiftly to seamlessly cover an area within days.

HD Video & Audio

With network SLAs to guarantee mission-critical traffic, the same infrastructure can be deployed to provide telecommunications, business applications, productivity and security systems. With high bandwidth infrastructure accommodating speeds up to 300Mbps, rich media applications and services can be delivered direct to Wi-Fi-enabled mobile devices to aid activities such as exploration, business planning and virtual meetings anywhere on site and around the world.

Better Than 3G Cell Phone Coverage

Mobile coverage can be unreliable even in built up urban areas. In remote or rural locations, it is frequently non-existent.

Datasat's mVOIP telephony solution provides critical mobile communication solutions in even the most remote locations.

Using a SIP Gateway and smartphone App, cell phone calls are carried over the WiFi network, with automatic transition to any available GSM networks when out of range of a Datasat network - without dropping the call.

Whatever your requirement, Datasat provides intelligent communications in hard to reach places, extending global reach cost-effectively to create high performance and reliable infrastructures for voice, data and multimedia applications.

Contact us today with your communications requirements on **+44 (0)118 934 9199** or email us at **sales@datasat.com**

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