

Communications drive business performance on construction sites



Increasing productivity and reducing cost is key to all construction projects. This requires high performance, reliable communications regardless how remote the site. Datasat delivers a single infrastructure for all parties on site to stay continually connected with access to the latest business, productivity and decision support applications.

Fast, accurate real time access to data is essential for all aspects of the operation of a modern construction site. Site managers, surveyors, civil engineers and sub-contractors require constant connectivity to headquarters. Business efficiency and productivity means real time access to the latest generation of construction applications wherever you are. In addition, site safety and security are paramount, a constantly available network infrastructure designed to securely accommodate today's video and rich media traffic, data analysis and robust communications systems is critical to safe, secure, reliable operations.

All of this has to be achieved using communications technology that can be quickly installed and scaled as well as redeployed as the site moves from initial survey to operations and as different phases of the construction project commence. Datasat designs and builds remote network infrastructure that meets the business, operational and welfare needs of construction sites - no matter how remote or harsh the environment.

> Key Features

- End-to-end network – based on correct blend of satellite, wireless and fibre technologies – to meet each remote location
- Network performance agreed by stringent SLAs
- 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
- 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 and mobile devices for security and welfare applications
- Innovative Fibre Back-up services allow for continuous business operation if the fibre network fails - at a fraction of the cost of traditional dedicated satellite approaches

Multi-service networks

Employing unique IP layer intelligence, with fine-grained policy management, Datasat's system enables network managers to implement different levels of security 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. Network traffic can be ring-fenced for guest, contractor and employee traffic.

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 WiFi-enabled mobile devices to aid activities such as site surveys, business planning and virtual meetings anywhere on site and around the world. The same network will also handle the latest IP based video surveillance across the entire site.

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

A Complete Communications Service

Datasat provides a range of services for key aspects of a remote construction project including:

Site Survey

- Establish site connectivity in minutes
- Share survey data in real time
- Video conference with HQ and other personnel
- Deploy low cost mVoIP calls for voice and data
- Quickly and easily redeploy network equipment

Rapid Set-up and Deploy

- Establish and redeploy site connectivity in minutes
- Mast, vehicle and hand held solutions available
- Secure access to office and operations services
- Wireless connectivity, satellite backhaul
- Unlimited users within wireless coverage

Asset Security

- Network optimised for video traffic
- Centrally monitor remote CCTV networks
- Real time security data delivered to mobile devices
- Video data integrated with other monitoring services
- Increase safety of all personnel on site

Enterprise and Operations Services

- Reliable and secure network infrastructure
- Availability above 99.97% guaranteed
- Network optimised for rich media and video traffic
- Dynamic bandwidth allocations to meet application requirements
- 'Self-healing' capabilities increase availability

Advanced Asset Tracking

- Monitor and management vehicle and employee productivity
- Enhance route, fuel and fleet management
- Sophisticated GPS tracking integrated into network
- Increased productivity through job scheduling and employee utilisation
- Monitoring data available anywhere via secure web portal

Innovative Fibre Back-up

- Delivered via secure VSAT satellite
- Dedicated bandwidth pooled between limited clients
- Bandwidth available when required
- Dramatically reduces the cost of back-up
- Solution operates across countries and continents