

Remote network infrastructure for video surveillance



Whether protecting a remote community or remote assets, effective surveillance is required to provide coverage over extended distances and often challenging terrain. Advances in IP traffic management technology allows for surveillance systems to become part of the same enterprise network infrastructure used for all voice and data communication needs.

The ability to rapidly install an effective surveillance solution for remote and temporary deployments without the cost and time constraints of a fixed-line infrastructure makes wireless networking extremely attractive for this type of security system. Unlike traditional CCTV networks that were single-purpose and proprietary, modern surveillance systems benefit from operating over enterprise IP networks.

Datasat Communications design and deliver network infrastructure that provides effective video surveillance in hard to reach places.

In this way, organisations can provide highly sophisticated video surveillance capabilities over high performance, multi-service wireless networks supporting multiple applications and user groups on the same network infrastructure. Datasat Communications designs and delivers surveillance network infrastructures that delivers high quality video to static and mobile users while concurrently supporting secure enterprise voice and data applications. Network management is simplified and operational costs are significantly reduced compared to fixed-line and proprietary alternatives.

> Intelligent throughput

There are many elements that can degrade video images passing across a wireless network. Intelligent traffic management provides the best trade-off between system capacity and video performance. Video traffic is optimised and prioritised to ensure video surveillance is available when and where it is required.

> Carrier grade performance, roaming and security

Datasat Communications is delivering new levels of performance, capacity and security to outdoor wireless networks. Utilising the 802.11n multi-radio architecture, video surveillance, voice and data connections are maintained with extremely low latency between wireless routers.

> Reliability and scalability

Outdoor wireless networks can quickly and cost-effectively be installed and extended. New wireless routers can be added or existing routers redeployed in a matter of hours. The network will scale across large geographical locations with less equipment than standard wireless networks.

> QoS Management

Through intelligent Layer 3 management, our wireless network infrastructures are driven by full Quality of Service (QoS) management - to an individual traffic type or user group level.

> Satellite backhaul

VSAT connectivity provides excellent backhaul to anywhere in the world rapidly and efficiently at prices comparable to wires in urban locations and at much lower prices than wires in rural locations.

Optimised for video content and featuring intelligent traffic management, our remote network infrastructure can be rapidly deployed, extended and re-deployed to another location as required.

In addition to our experience of delivering secure VSAT satellite systems into remote locations, the surveillance networks from Datasat Communications are formed around a range of wireless technologies designed around innovative Layer 3 architecture that extends the performance, security, manageability and reliability of your network infrastructure.

By deploying industry-leading quad-radio wireless routers, the network can use separate radios for application access and wireless backhaul to deliver superior performance to single or dual-radio systems. Datasat Communications delivers an 802.11n, multi-radio architecture to provide capacity of up to 300Mbps per radio with virtually no performance degradation between network hops. The latest 802.1x authentication support ensures enterprise-level security.

IP-based surveillance equipment can be connected like any other network device and the network extended quickly and cost-effectively - one camera at a time.

A single network provides complete multi-service operation and concurrent wireless backhaul over the license-free 2.4GHz and 5GHz frequency bands. Advanced and intelligent network management provides consistent and reliable data throughout and automatic routing to eliminate single points of failure from the network.

Whilst wireless provides an excellent solution for local, line-of-sight connectivity, satellite backhaul enables connectivity with remote control rooms or headquarters anywhere in the world. Satellite technology delivers a very high degree of maturity, reliability and security. In this way, we can deliver network availability of 99.95%.

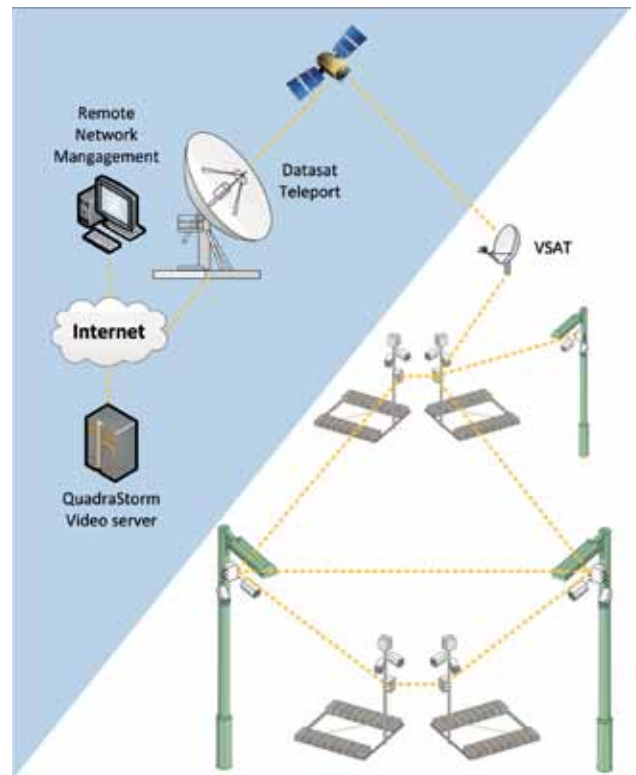


Figure 1: A wireless mesh configuration for video surveillance networks, including video storage and analytics solutions.

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