Wireless Building Management for Network Operators

Network Operators face challenges to provide communications at all time. Especially for public safety whereby human life can depend on the availability of communication, it is essential to have optimum availability. Loss of communication can also contribute to loss of income and weakening the network operator's reputation.

On radio (high) sites there are various components that can hamper the communication availability. Accessibility to high sites is often difficult due to the difficult access to the remote sites, often hindered by bad weather conditions, and the time to get to the site. Furthermore, the control of maintenance personnel that are allowed on site is also a dilemma (access key management).

ESS has specifically developed monitoring and control equipment called Wireless Wide Area Telemetry (WWAT). It has benefits for network operators to remotely monitor (early warning) the radio site (temperature, mains failure, unauthorized access, battery voltage and current, standby generator fuel, VSWR, transmit

power and receive signal strength information).

Control to the remote site can be achieved from a control software program (control access gate/lock, control alarm system, control standby generator, control equipment. control mast and security lights).

WWAT products are designed with emphasis on Modularity, Reliability, Maintainable, Simplicity in Operation and Cost Effectiveness. We have considered the environmental conditions such as severe lighting, the shortage of skilled personnel to operate and maintain equipment and the frustration with the vulnerability of cable systems (aging, cable theft, damage and lightning).

ESS staff has excellent experience in providing national communications networks, hence our multitude of modular wireless communication media's between the remote equipment on site and the monitor & control systems. ESS takes a strong stance on message delivery and reliability, therefore the WWAT equipment enable authentication and acknowledgements at every level of the Monitor and Control process. This will ensure robust data-integrity between the sensors and Monitor & Control software platforms. ESS also provides remote-site Monitoring & Control from the Internet with password user logins for easily configuration and management in a secure way.

ESS is a South African company, established in 1999, with an in-house design team and proven track record in wireless telemetry applications.

YOUR WIRELESS COMMUNICATION EXPERT