



Secure Resilient Networks

Laing O'Rourke gets WiMAX-ready connectivity solution

Laing O'Rourke, lead contractor at a 27,000 sq ft luxury apartment complex in Knightsbridge, London, has implemented a 10 mbps 'WiMAX-ready' fixed wireless internet connection with automatic failover to a 'bonded quad ADSL' link to provide secure resilient connectivity to its construction teams. The high bandwidth, fixed wireless radio configuration, which incorporates secure virtual LANS (VLANS), enables the 12 sub-contractors on the site to collaborate online.

The use of **point-to-point wireless connectivity** avoided digging up the area to lay cable, which would have involved lengthy applications for permission from the Royal Parks Department and means there is no risk of cables being damaged by machinery at the site, which is due for completion in 2010.

The wireless radio signal is beamed through the air to the site from a nearby base station. The bandwidth is then picked up by antennae attached to the portacabins positioned across the site, which accommodate approximately 100 workers.



"CI-Net is really geared up to providing connectivity for construction. They have a range of services which they tailor to our needs and they're extremely responsive to our requirements."

Paul Giles, Regional IT Manager for Project Site Implementation, Laing O'Rourke.

"Modern construction teams rely on dedicated construction portals and the web to share drawings, reports and emails with other workers on site as well as with staff at head office, so good connectivity is essential to keep projects moving. There's a lot of WAN activity and bandwidth-hungry portals that need big links," explains Paul Giles Regional IT Manager for Project Site Implementation at Laing O'Rourke.

"The CI-Net solution works out less expensive than paying for leased lines which would have been our other option. And we don't have the costly delay of around three months for putting in leased lines. Now, every time a new contractor joins the construction project we can give them connectivity within a day."

For **business continuity**, the wireless radio connection has been configured to automatically load balance and failover to a Quad ADSL solution - four 2 mbps ADSL lines which have been bonded together using a StoneGate firewall appliance to act like a single powerful link. "The StoneGate also allows us to create secure separate VLANS allowing the individual sub-contractors to share the same links without accessing each other's data," explains Graham McLean, CI-Net Managing Director. "We have provided connectivity to 32 different construction sites in the south of England for Laing O'Rourke," he adds.

"Reliable connectivity is crucial to major construction projects as it allows construction teams to work efficiently, avoiding delays which can cost millions of pounds," concludes Giles.

Please contact us for further information

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