

CASE STUDY

Tlokwe Municipality

BACKGROUND

Bytes Connect approached Comsol with a requirement for Tlokwe Municipality in Potchefstroom, to provide a cost effective data and voice connection from their Ikageng library and engineering office back to their main district office, where other forms of connectivity proved challenging and expensive.

The key requirement was for a 100Mbps Point-to-Point (PtP) link from each site back to their district office, however line of sight (LoS) between these sites was an issue and therefore needed a solution using a repeat site.

CHIEF BENEFITS OF PROJECT

- “Build-Own-Operate” rollout enables Tlokwe to benefit from a quick return on investment;
- Standard and uniform products allow for ease of unit replacements and spares holding;
- Triple-play allows for multiple applications to be run simultaneously, eliminating the need for multiple services for each requirement and subsequently saving money ;
- High bandwidth capacity enables the above applications to run simultaneously, allowing for time saving and a more efficient work force .

SUMMARY OF PRODUCTS

- Proxim QB8100
- Telimart 2ft and 3ft single polarized parabolic antennae

CONTACTS

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Ikageng stadium floodlight repeater



Engineering office



Installation at engineering office

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THE SOLUTION

Comsol built a Point-to-Point 100Mbps wireless network using Proxim QB8100 radios and Telimart antennae. Each site is connected back to a switch in the floodlight at the Ikageng sports stadium, thereby ensuring the Ikageng library and engineering office could both connect to the district office.

TLOKWE SITE LOCATIONS



FUTURE GROWTH

Comsol provides ongoing quality and cost effective wireless solutions to Bytes Connect.

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CRITICAL DATES

- November 2010:
Proposal sent to Tlokwe by Bytes
- May 2011:
Tlokwe awarded project to Bytes and Comsol
- June 2011:
Project completed and tested 100%

CHALLENGES

- Line of sight: A repeat site was earmarked in the form of one of the Ikageng sports stadium floodlights which had clear line of sight to all three sites;
- Power to the stadium floodlight was required to provide for the radio system.



Proxim QB8100 Radio