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*Mutua, Manager of IT Department
Government of Kenya*

Kenya Government Deploys RADWIN's Multi Point-to-Point Wireless Broadband Solution

Case Study

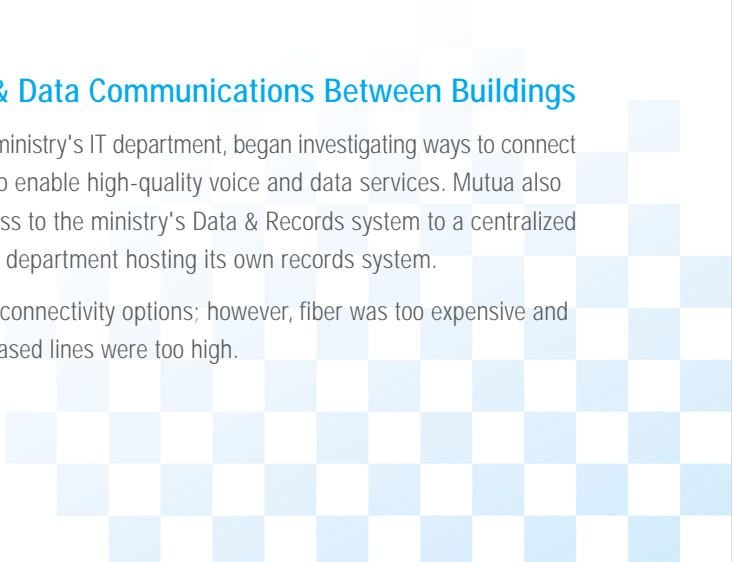
Customer: Government of Kenya

The government ministry in Nairobi, Kenya sought to connect its government buildings located in 8 disparate locations throughout the city in order to create one private network and significantly lower its communications costs.

The Challenge: High-Quality Voice & Data Communications Between Buildings

Mutua, the manager of the ministry's IT department, began investigating ways to connect the government buildings to enable high-quality voice and data services. Mutua also wanted to consolidate access to the ministry's Data & Records system to a centralized server site, instead of each department hosting its own records system.

Mutua considered wireline connectivity options; however, fiber was too expensive and the recurring charges for leased lines were too high.



Choosing the Right Connectivity Solution

Ultimately, Mutua identified microwave radio communications as the ideal solution for the ministry's needs.

"We considered deploying a point-to-multipoint system, but the volume of traffic transmitted between the departments is much higher than what would typically be supported by point-to-multipoint systems. Also, point-to-multipoint systems do not provide guaranteed dedicated bandwidth which is essential for the ministry's bandwidth-intensive requirements."

Mutua continued: "Licensed point-to-point solutions were not a feasible option because of the high cost of equipment and licenses. Working in unlicensed bands seemed like a good option, but since we had to install several radios in close proximity we needed a solution that could overcome the problem of collocation interference."

The Solution: WinLink™ 1000 Multi Point-to-Point

The need for dedicated bandwidth, collocation capability, and reliability led Mutua to choose RADWIN's WinLink™ 1000 Multi Point-to-Point solution.

The WinLink™ 1000 Multi Point-to-Point solution addresses a variety of applications where multiple sites need to be connected to one hub - enabling each remote site to benefit from a dedicated connection with guaranteed bandwidth. As many as 16 point-to-point radios can be deployed at the same site, and the Multi Point-to-Point solution's unique Hub Site Synchronization feature eliminates collocation interference between the collocated radios.

Creating One Voice & Data Network

RADWIN's WinLink™ 1000 Multi Point-to-Point solution was deployed with amazing speed by Open Systems, a leading system integrator based in Kenya and RADWIN's certified partner.

The main government building was equipped with eight 5.8 GHz radio links which beamed voice and data communications in point-to-point connections to the other 8 departments on campus. In addition, PABX systems and servers were installed in this central location, enabling the ministry to create one network, interconnecting all sites and providing central connectivity to the Internet, public telephone network and Records system.

Mutua is delighted with the result. He said: "What makes RADWIN's Multi Point-to-Point solution so appealing for us is that each location receives high-capacity dedicated bandwidth with maximum reliability. RADWIN and Open Systems have surpassed our expectations on the implementation of this network, and this project has become a showcase for other ministries who are interested in doing a similar deployment."

Multi Point-to-Point: Higher Bandwidth, Lower Costs

With RADWIN's Multi Point-to-Point solution in place, the government ministry enjoys the following benefits:

- **Internet access for all departments** via a central point;
- **No leased lines charges** - The ministry now owns and controls its own network, thus eliminating monthly recurring charges for leased lines;
- **Major cost reductions** - Instead of each government building having to pay for its own Internet connection or host its own backup server, 1 Internet connection and 1 central backup system is all that is used;
- **Ability to make voice calls for free** between the departments, thereby significantly cutting down on telephone costs;
- **Dedicated connection** - Each government building enjoys high-capacity dedicated bandwidth, and there's no degradation in network performance as more users join the network;
- **Greater efficiency** - The ability to easily share data between the departments make the government more efficient and responsive to the public's needs.

