

Wireless Extension for Internet Access

Case Study



Wireless Extension for Internet Access Orange Cameroon



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Christian Nkone, Transmission Manager at Orange Cameroon

Challenge

To extend the corporate PDH network to residential sites over a wireless link, and provide Internet access for home office use.

Solution

Internet access is supplied to the residence via AirMux-104 wireless multiplexers installed at the residence and at the nearest base station. RAD's FCD-IP access unit with integrated router, located at the base station, converts between the PDH E1 and Ethernet interfaces.

Benefits

- Stable, reliable wireless point-to-point or point-to-multipoint connection
- No interference in a license-free environment (5.8 GHz)
- Easy deployment and configuration

Orange Cameroon Provides Internet Access over License-Free Wireless Links

AirMux-104 Extends Corporate PDH Network to Residential Areas

Internet access is available in the major Cameroonian cities of Douala and Yaounde, but it is plagued by poor quality phone lines and high prices. Orange Cameroon wanted to save money on Internet access for the residences of its directors located in various residential areas in these cities, and at the same time deliver high quality Internet service for working at home by connecting them to the Internet via Orange Cameroon's corporate PDH network.

Due to the high cost and scarcity of wireline infrastructure in the country, Orange Cameroon opted for wireless links. Pairs of RAD's AirMux-104™ wireless multiplexers were deployed in point-to-point connections, with one unit at the residence and the other at a base station nearest the residence. To transmit the data to the PDH network, a RAD FCD-IP access unit with integrated router, located at the base station, served as an E1-to-Ethernet interface converter.

In addition, to connect between three residences and a single base station, three pairs of AirMux-104 units were installed in a point-to-multipoint topology.

"We considered several wireless solutions," says Christian Nkone, Transmission Manager at Orange Cameroon, "but we chose RAD's AirMux-104 because it provides a stable and reliable wireless connection. It is very easy to install, and is not susceptible to interference in a license-free environment."



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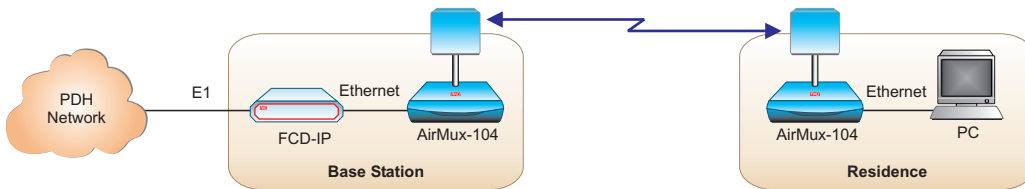
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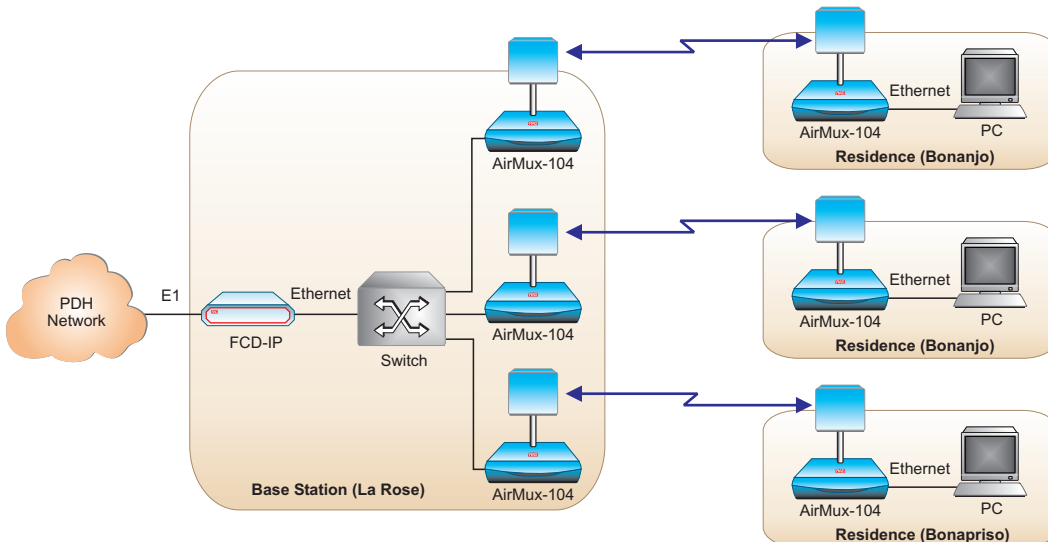


Client Satisfaction

"The AirMux solution has been in place at Orange Cameroon for half a year, and the client is satisfied with the quality and stability of the links. We have not received any service calls concerning the installations," states Jean Gallo Jiotsa, Managing Director at Adsnet, the RAD distributor that provided the solution.



Point-to-Point



Point-to-Multipoint



data communications

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