

Outdoor and indoor applications for broadband local loop with fibre supported mm-wave radio systems

M. Goloubkoff, E. Penard, D. Tanguy, P. Legaud, D. Mathoorasing, F. Devaux and C. Minot. "Outdoor and indoor applications for broadband local loop with fibre supported mm-wave radio systems." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. 1 [MWSYM]): 31-34.

Radio over fiber is emerging as an attractive option for the delivery of broadband services. Two outdoor systems, in "FRANS", an ACTS European project, will demonstrate the integration of bilateral point/multipoint mm-wave radio system over a Passive Optical Network (PON) system and over an Hybrid Fiber Coax (HFC) system. These hybrid approaches can suit local access network operators future needs. For indoor systems, Radio over Fiber introduces restricted mobility. Thank to expected low cost transducers, bit rates of few tens of MBit/s have been demonstrated for Residential Broadband Applications.

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