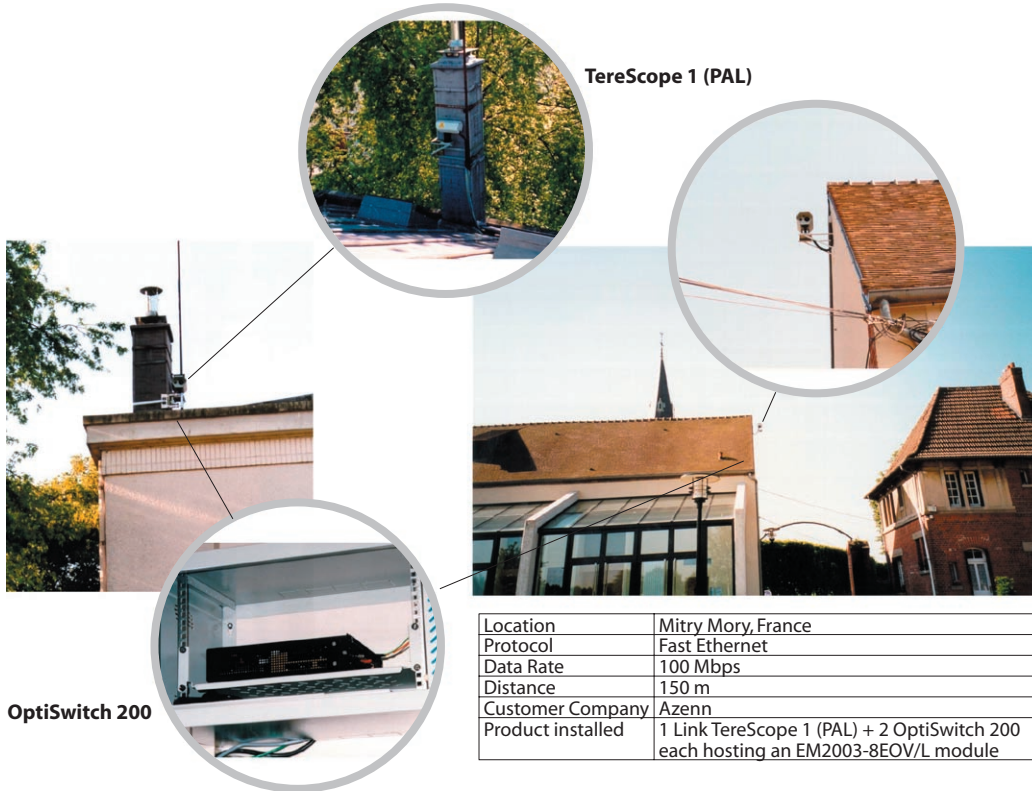


CASE STUDY

Installation of an all-optical wireless link

TereScope 1 (PAL)

Hotel de Ville de Mitry Mory (City Hall at Mitry Mory, France)



The Mitry Mory city hall had a branch established in a separate facility, the Jacques Prévert Room, distanced 150 m from the main building. They had to find a solution that would enable both locations to work on a single network, connecting over 70 PCs and 2 servers.

Obviously, digging up the street in the city for laying fiber optic cables was out of the question, so the solution had to go through the air.

Another "must" was the issue of security: since confidential data was passing between City Hall and the branch that deals with Identity and Civil matters, it was a sine-qua-non condition that the connection would under no circumstances be tapped, intruded upon, or tampered with.

The ideal solution was **Free-Space Optics (FSO) links**.

After having studied the feasibility and cost effectiveness of various solutions and vendors, the **TereScope 1 (PAL)** all-optics link from **MRV** was selected for the following main reasons:

- Its performance is equal to that of fiber optics (100 Mbps Full Duplex)
- Its deployment could be, and indeed was, executed within 3 days and it could start operation immediately.
- There was no need for bringing electricity to the roof of the buildings (PAL being all-optics, i.e. with no electronic or electrical components).
- Its MTBF of over 10 years is much better than that of other available equipment.
- And, finally, the cost is about half of other solutions examined.

The equipment has been installed and running for a few months to the full satisfaction of the users, with no failures, interruptions or any other problems.

