

CASE STUDY



TereScope-1 (PAL) as part of a multiple FSO links network



With nearly a year of solid 100.00% up-time on their first Free Space Optics link (a 650 meter MRV 100 Mbps TS1000x with Fusion Redundant RF) the City of Eau Claire, Wisconsin needed a 100 Mbps link from their data center to the public library and adopted the all-optics TS1 optical wireless link from MRV.

The Problem

- An existing 802.11b RF radio wireless link between the City of Eau Claire, Wisconsin's data center and public library was causing problems. Too slow. Inadequate throughput.
- A 100 Mbps Fast Ethernet connection would be ideal.
- The new MRV all-optics TS1 link with its low cost became the top contender.

The Solution

- Installation of a TS1 - 100 Mbps FSO optical wireless link by MRV made the town of Eau Claire the first Wisconsin city to be on multiple and diversified FSO links.

The Benefits:

- Low cost: the TS1 is much lower in cost than any competitive wireless 100 Mbps offering
- All optics solution: No electricity or electronics required on the rooftop
- High performance: 100% bulletproof right up to the maximum rated link distance
- Installation is a breeze: mount, scope-aim, fine-align, power media converters up, verify that Port 1 and 2 link lights are lit at both ends, done. Pretty simple
- Set-and-forget with no interference worries. On a scale of 1 to 10, you would sincerely have to give this equipment a 10. It has all of the indications of a paradigm shift in the Free Space Optics equipment sector.

Location: Eau Claire, Wisconsin, USA	Organization: City of Eau Claire and Public Library
Protocol: Fast Ethernet	Data Rate: 100 Mbps Full Duplex
Distance: 120 meters	Mounting: Outside sidewall, masonry buildings