

The Infra Red Solution

In order to achieve these goals several choices were explored. In line with their findings, D3 Intercom S/A set out to seek a partner with appropriate Infrared (IR) as well as networking capabilities. The dangers of relying on small manufacturers with long production times and not yet proven equipment were very clear. The few large companies on the IR market offered rather expensive equipment, as well as interoperability problems between the IR and the end user equipment.



As a result, D3 chose Optical Access for its IR equipment availability, as well as the best price/performance of its products. The TereScope™ product line, coupled with the Optical Access' family of OptiSwitch™ switching and routing products, provides an efficient, cost effective solution. The first pilot installations are currently being introduced in the Sao Paulo downtown area. The area map is shown in the figure below.

The Optical Access technical solution for the Sao Paulo pilot project is based on the use of Mesh Network Architecture for the network backbone. Such architecture will be able to provide the required redundancy for the network links, as well as better adaptability to the geographical requirements. The initial number of nodes in this backbone are sixty. The nodes will be connected by Fast Ethernet IR Wireless links (TereScope™). Each node will be equipped with a router unit (OptiSwitch Master™) to manage the Mesh connectivity. Each backbone node will connect a cluster of buildings to the backbone, via 10M Ethernet IR Wireless links. Each building in the cluster will be equipped with an Ethernet switch (OptiSwitch™), which will connect the end user sites by 10/100BaseT links.



About MRV

MRV Communications is a world-class provider of high-bandwidth, low-cost Ethernet access solutions. These solutions include last-mile Ethernet, Ethernet over VDSL, Free-Space Optics (FSO), Media Conversion and Wave Division Multiplexing. MRV markets its products in more than 50 countries to existing and emerging service providers, as well as to enterprises requiring service aware broadband networks. As a leader in optical technology, with years of field proven success, MRV projects division is fully committed to 24x7 direct support and response to all projects needs and to taking care of special adaptation of its products to fit the Utilities Broadband Networks requirements in order to optimize the network utilization, support the whole spectrum of services and help the operator gain more revenue by providing more services to more customers more quickly.

For more information, visit www.mrv.com.