



Replacing an aging VDSL link with a wireless PTP link for video surveillance at a campground

Client: Indianfield Co-Operative Campground

Project date: June 2015

Information

In order to replace an aging wired infrastructure, Indianfield Co-Operative Campground Association installed a wireless point-to-point link to provide the needed connectivity to their entry station for communication and video surveillance. High-gain wireless devices with narrow beam satellite dish antennas were used to establish a high reliability wireless connection.

Challenges



Aging wired infrastructure

at the campground called for a modern and cost-efficient solution. The client preferred to avoid any digging to lay new cable and wanted to avoid any aerial wiring. In order to accommodate a high quality video surveillance network, a wireless solution with high capacity and high PPS (packet per second) was required.



Limited line of sight

at the campground due to foliage had to be taken into consideration



A cost-efficient solution was required.

As this was an unplanned / non-budgeted expense the funds for the equipment and installation were limited.



Solution

LigoWave's APC ECHO 5D devices, designed for long-range and high throughput wireless networks, were selected to ensure a stable wireless connection. The simple assembly process allowed the client to setup the devices quickly and the use of satellite dishes provided accurate beam aiming through the limited line of sight window. The proprietary communication protocol, iPoll, available in the LigoWave devices secures the network and enhances the overall network performance and reliability. The weather proof metal enclosures will ensure the longevity of the devices, and minimize the total life cost of the project..

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The turn-up process for the Echo 5Ds was very straightforward. Assembly time was very short due to the instructions given. I upgraded the firmware & configured the Echo 5's before attaching them to the satellite dishes. Overall, it was an excellent experience. We are investigating expanding our WAN to all the buildings on the property.

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Mitchell Lewis, Network specialist, U.S. Computer Connection