CASE STUDY | SYMMETRICAL HORN CARRIER CLASS SH-CC 5-30

WISP PROFILE

Name of WISP:
Red Habana – Este

Location: La Habana, Cuba

OVERVIEW

The Habana-Este network emerged in 2008 in Havana - Cuba with the aim of sharing information among friends without any profit. From the beggining it has been at the crossroads of how to increase the bandwidth on its links and achieve greater stability and less loss of packages / low latency towards the connections of its users since a main objective is the games in the local network. It is currently in a moment of expansion of its backhaul links and, like virtually any network, it has encountered problems with antennas that emit noise which negatively affects the performance of the links.

PROBLEMATIC SOLUTION

The Habana-Este network is currently involved in a crucial problem: How to achieve links with higher transfer rates with exceptional stability, maintaining the quality of the existing links and avoid damaging the antennas with the inclemencies of the tropical climate: high relative humidity and a lot of sun.

RESULTS

When replacing the previous antenna, a UBNT NanoBeam AC 19 Gen2 for a 30° RF elements horn Carrier Class paired with a UBNT Rocket Prism AC Gen2, a change in link stability was noticed. What mainly happened before was a reflection of the signal that caused a variation in the perceived gain for each radio when a meteorological phenomenon known as an extratropical fall occurred in this area of the Caribbean. The link is made by land and sea. Currently this problem ceased to exist. The link is at a distance of 6KM and at a signal intensity of -67 dBm passing 150 symmetric megabytes. We have managed to obtain greater stability in the connection even during periods of large file downloads by users.

-JOSÉ JAVIER MENA MUSTELIER,
ADMINISTRATOR RED HABANA - ESTE

LOOKS INTO THE FUTURE

After testing this antenna and noticing its benefits, the immediate thing would be to implement the other end of the link with the same antenna to achieve the ideal PtP. I've noticed how, just by changing one end of an antenna with RF elements, how well they work and the quality of the materials with what is manufactured. This antenna has been in operation for 7 months and is in impeccable condition. As a future goal we have planned the implementation of the RF elements antennas in PtP links of greater distance, from 10 to 15KM.

-JOSÉ JAVIER MENA MUSTELIER,
ADMINISTRATOR RED HABANA - ESTE

Read more RF elements® success stories:
https://rfelements.com/marketing/testimonials/

See more customer feedback:
https://www.youtube.com/user/RFelementscom