CASE STUDY

CUSTOMER POC IN U.A.E.

EQUIPMENT USED

PTT 500mW radios, some of which were operating at only 250mW.

OBJECTIVES

» On the Search & Rescue disaster management training site, there is a collapsed building, and within this structure there is a concrete crawl tunnel, 1.2 metre square.

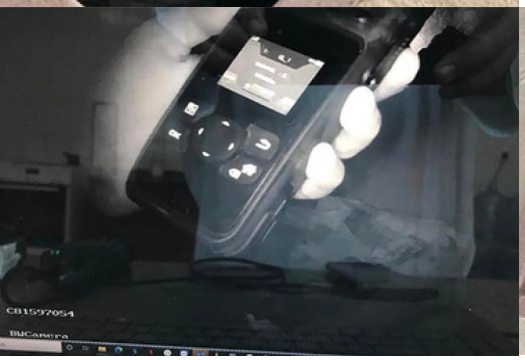
» The challenge was to transmit audio from the tunnel, with the trapdoor closed. All previous attempts by other communications and IP Mesh vendors had failed.

SOLUTION: WITHIN CONCRETE CRAWL TUNNEL

On the Search & Rescue disaster management training site, there is a collapsedbuilding, and within this structure there is a concrete crawl tunnel, 1.2 metresquare. The challenge was to transmit audio from the tunnel, with the trapdoorclosed. All previous attempts by other communications and IP Mesh vendorshad failed.

Not only did we succeed in transmitting audio over the PTT Mesh radios but wealso delivered video, to the surprise, and delight, of the end user. None of the radios used in this exercise exceeded 500mW RF power, and someof them were operating at only 250mW. This is testament to the superior digitalsignal processing of the Ace6 technology.

We also proved the superior RF performance in closed 40' shipping containers,and within metal elevators, from the 10th. floor to ground, with no interruption inPTT Audio and video transmission. The user kept pushing us to perform inconditions where they had previously been unsuccessful with all previouscommunication systems….and we performed!



Live video screenshot from inside the sealed tunnel, using:
2.5MHz bandwidth, 4.9GHz frequency, 500mW RF output, antenna gain 1dBi

CONCLUSION

» All previous attempts by other communications and IP Mesh vendors had failed.

» The communications from within the tunnel were a success, exceeding customer expectations, for both audio and video transmission, within the tunnel and to the surface.

DMX-2023-08

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