

THE DIS END-2-END TELEMETRY DEMO

Take a guided tour from the airborne vehicle down to the ground. Discover how our systems and equipment work together seamlessly to capture, store, process, and transport data from onboard sensors, and deliver to mission control & display stations. This intricate process ensures the efficient flow and management of data, resulting in a finely tuned data stream with visualizations aiding in mission-critical decisions.

Flip the sheet to learn more about each Station. 

Walk through, station by station, to see how data is acquired, transported, recorded, processed, and finally, displayed for analysis.



Station 1's Video Encoder Transfers HD Video Generated By On-board Sensors And Displays Generated Video Is Delivered Over IP To **Station 2's** Solid State Recorder
Station 9's Telemetry Data Processor (TDP) Generates Simulated PCM Generated PCM Is Delivered To **Station 2's** Solid State Recorder



Station 2's Solid State Recorder Multiplexes PCM & Ethernet Video Into A CH10 Stream CH10 Stream Is Encapsulated In A CH7 Stream And Then Delivered To The Transmitter The Transmitter Modulates The Data And Converts To An L-Band Signal The L-Band Signal Is Transmitted To **Station 3's** Tracking Antenna



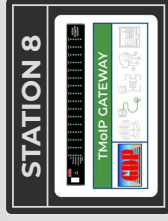
Station 3's Tracking Antenna Receives The L-Band Signal From The Transmitter Local Video Is Also Captured At **Station 3** Via The Antenna Bore-sight Camera
Station 3's Antenna Delivers The L-Band Signal And Local Video To **Station 4's** Antenna Control Unit (ACU) Via A Fiber Connection
Station 4's ACU Displays The Antenna Local Video On The Front Panel
Station 4's ACU Also Delivers The L-Band Signal To **Station 5's** Telemetry Receiver



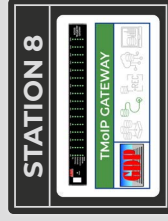
The L-Band Signal From **Station 4** Is Split 4 Ways To Simulate 4 Antennas And Delivered To **Station 5's** Telemetry Receiver
Station 5's Telemetry Receiver Converts And Demodulates The 4 L-Band Signals
Station 5's Telemetry Receiver Sends The 4 Demodulated Streams To **Station 6's** Correlating Best Source Selector (BSS)



Station 6's BSS Correlates The 4 Received Data Streams And Outputs A Single Optimized Data Stream
Station 6's Optimized Output Best Source Data Stream Is Sent To **Station 8's** TMoIP Gateway Via PCM
Station 8's TMoIP Gateway De-encapsulates CH7 PCM Received From **Station 6's** BSS Optimized Output



CH10 Stream Containing PCM And Video Are Sent As CH10 UDP Over IP To **Station 7's** Wideband Recorder
Station 7's Wideband Recorder Records And Plays Back CH10 UDP Stream



CH10 Stream Containing PCM And Video Are Sent As CH10 UDP Over IP to **Station 9's** TDP
Station 9's Displays The PCM and Video Data via ADAT Software

