WELCOME TO TECH TUESDAY FROM VIC MYERS ASSOCIATES

YOUR LOCAL REPS

VIC MYERS ASSOCIATES

THE MODERATOR TODAY:

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IN PARTNERSHIP WITH

parraid

THE PRESENTER TODAY:

BILL HARRISON, FIELD ENGINEER

WHARRISON@PARRAID.COM

A product engineering company focused on design, production, sales, and support of tactically oriented mission-critical communications solutions and telemetry data systems.

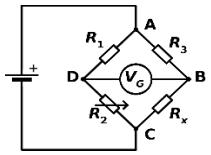
What is Chapter 7 (CH7)?

What you need to know for a successful recording.

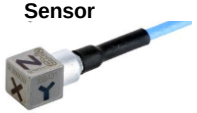
What is Chapter 7 (CH7)?

Data Converted to CH10 Packets

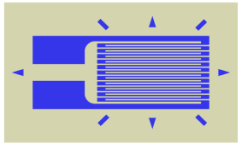
Sensor Data



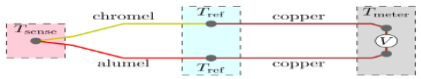
Bridge Sensor



Accelerometer



Strain Gauge



Thermocouple

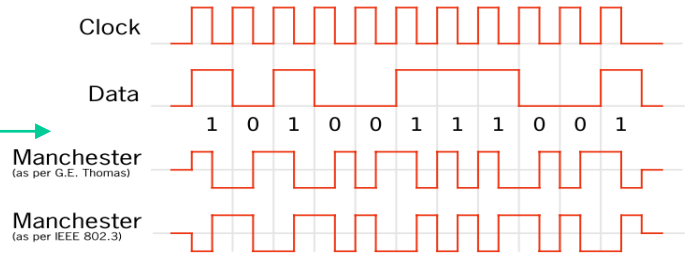
Recorded in Airborne System

CH7 Recorder

Avionics

- PCM CH10 Packet
- Analog CH10 Packet
- Analog CH10 Packet
- Analog CH10 Packet
- Analog CH10 Packet
- UART CH10 Packet

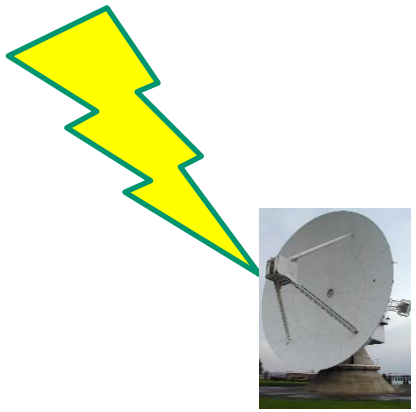
CH10 Packets Encoded into PCM
This is what we call “Chapter 7”



PCM Encoder

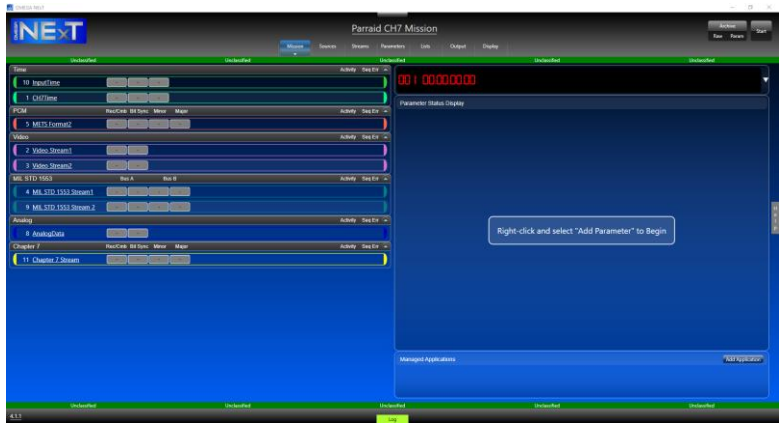
PCM RF to Ground

CH7 on the Ground



PCM or TMoIP

Omega NExT Decom



Data Converted back to CH10 Packets

- PCM CH10 Packet
- Analog CH10 Packet
- Analog CH10 Packet
- Analog CH10 Packet
- Analog CH10 Packet
- UART CH10 Packet

What You Need to Know for a Successful Recording

- **If you want to record just the CH7 stream, then it is not necessary to setup the embedded Chapter 10 (CH10) packets. Just setup the CH7 frame geometry as you would with any PCM stream.**
- **However, if you want to break out the embedded CH10 data you need to know:**
  - What CH10 streams are embedded in the CH7 data?

    - ❑ Time– Only channel ID number required.
    - ❑ ARINC– Only channel ID number required.
    - ❑ PCM – Frame geometry required for decom
    - ❑ Analog – Only channel ID number required.
    - ❑ Video – Only channel ID number required.
    - ❑ UART – Only channel ID number required for recording. Decom requires parser.
    - ❑ 1553 – Only channel ID number required.
    - ❑ Ethernet - Only channel ID number required for recording. Decom requires parser.

  - What are the CH10 channel numbers for each Stream?