



DELTA INFORMATION SYSTEMS, INC.

**Wrapped**

**2025**

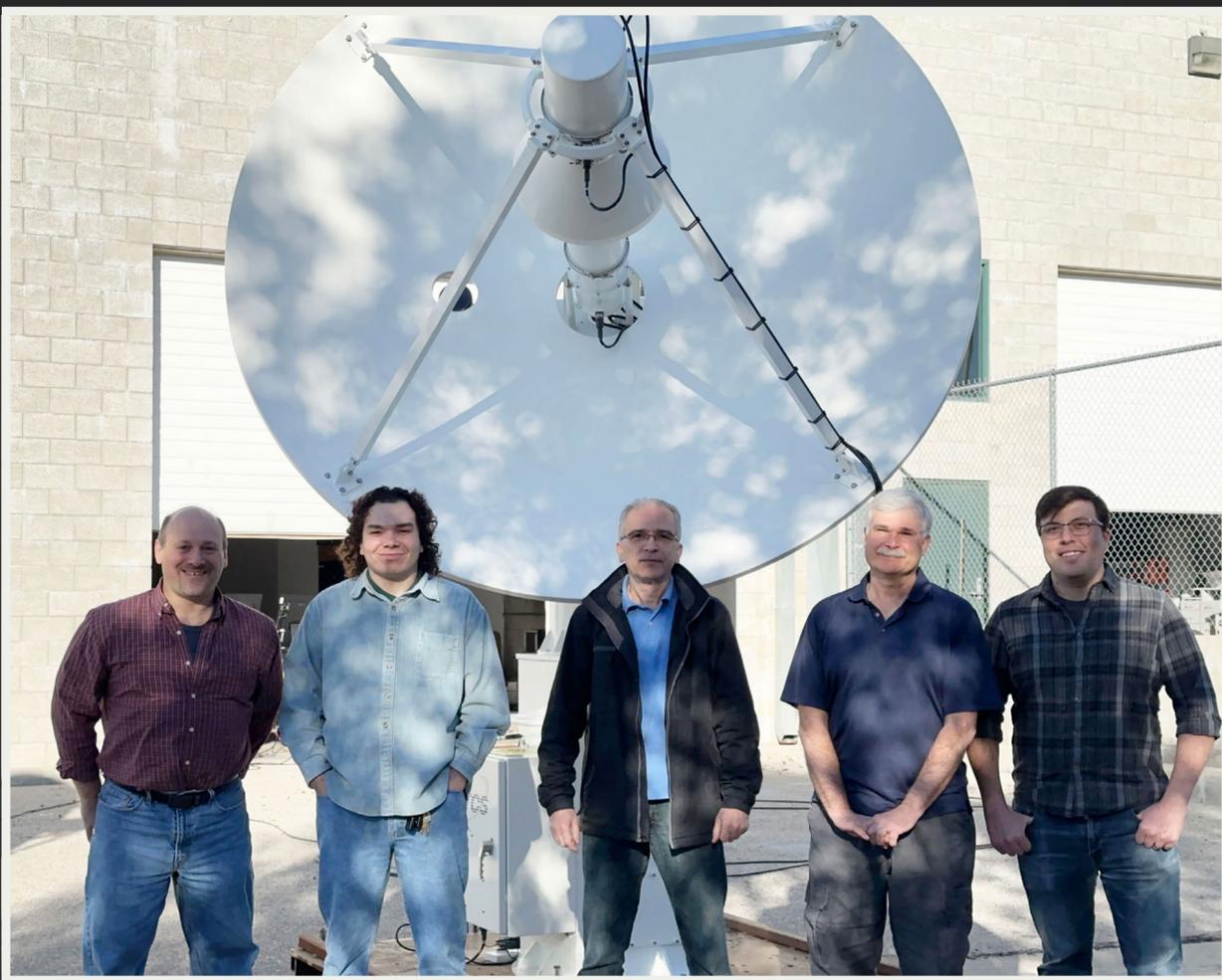


You didn't just meet the mission.  
You moved it forward.  
Here's how you spent your year.



# 25

## Years of Excellence!



TCS celebrates a quarter-century of pushing the boundaries of tracking, telemetry, and communications technology.

Thank you for being part of our story.

[READ MORE](#)



# Your top companies

in no particular order

**1** **ACROAMATICS**  
*TELEMETRY SYSTEMS*

**Acroamatics**

**2** **AMPEX**

**Ampex**

**3**  **DELTA**  
Digital Video

**Delta Digital Video**

**4** 

**GDP**

**5** 

**TCS**

**6**  **Wideband Systems, Inc.**

**Wideband Systems**



**ACROAMATICS**  
*TELEMETRY SYSTEMS*

## Your top companies



POWERING  
THE FASTEST  
DECISIONS AT SEA

### UNWRAPPING THE WIN

Some missions happen in milliseconds. The Rolling Airframe Missile is one of them

In 2025, Acro's real-time telemetry systems supported RAM test operations, missions where intercept timelines are measured in split seconds and the data must be perfect on the first try.

These flights push guidance, control, and telemetry channels to their limits, demanding processing hardware that can keep pace with a missile moving faster than the threat it's built to stop.

Acro's low-latency processing delivered clean data, real-time insight, and rock-solid performance under extreme conditions, supporting naval weapons programs where the margin for error is zero.



# AMPEX

## Your top companies



### BUILT FOR THE EDGE

#### UNWRAPPING THE WIN

In 2025, Ampex Data Systems expanded its mission systems role by taking on business development coverage of the Delta Digital Video portfolio in support of Delta Information Systems's Delta Mission Systems segment.

Company lines and product independence remained unchanged. What changed was customer engagement.

Mission video and rugged data recording are now addressed together as a unified mission data solution, enabling earlier alignment on SWaP-C, timing, throughput, and data handling. EO/IR video is treated as mission data from the start, reducing integration risk and accelerating the path from sensor output to usable mission data across edge platforms.



## Your top companies



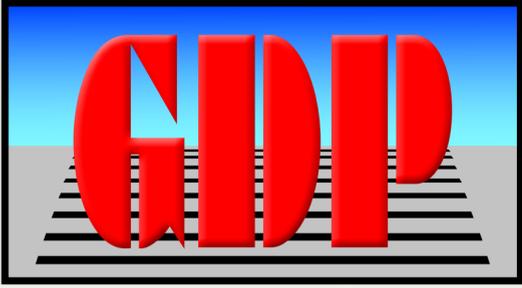
### VIDEO THAT MOVES THE FIGHT FASTER

#### UNWRAPPING THE WIN

Delta Digital Video's 9600 Series scalable, COTS video distribution system continues to be deployed on Naval platforms in support of the service's T116 Mod 1 program.

The Navy's T116 program focuses on modernizing combat systems across the surface fleet, including the Aegis Combat System, which supports cruisers, destroyers, aircraft carriers, and amphibious ships. The program consists of enterprise products in use across surface Navy combat systems which introduce powerful, commercially available, off-the-shelf processors as part of a general strategy to achieve a modular and open architecture design.

DDV's video distribution solution supports real-time, multi-channel mission critical video streaming for direct integration with Naval subsystems to enhance dissemination and decision making.



## Your top companies



BUILT FOR  
ZERO DATA LOSS

### UNWRAPPING THE WIN

Edwards Air Force Base is where aerospace systems are pushed to their limits, and where test data must be captured flawlessly, every time. There is no margin for missed packets, dropped frames, or second chances.

In 2025, Edwards AFB selected GDP to support its Modular Mission Control Room Upgrade Program, investing in numerous Model 3500 Ethernet Data Recorders.

The Model 3500 delivers deterministic, high-data-rate Ethernet recording with the capacity and reliability required for modern flight test operations. When the mission demands total trust in the data, GDP is the recorder on the rack.

GDP technology is embedded in one of the most demanding test environments in the world, capturing the data that moves aerospace forward.



# Your top companies



## COMMANDING THE RANGE

### UNWRAPPING THE WIN

The Jonathan Dickinson Missile Tracking Annex (JDMTA) in Florida is where missile and space systems are tracked under live-fire conditions, with no room for failure and no second chances.

In 2025, TCS upgraded a major system at JDMTA, supporting a live launch with precision tracking, rock-solid control, and absolute reliability at the moment it mattered most.

The reaction from the team said it all:

*"Well... that was freaking epic!!! It went really well."*

TCS delivers proven performance at the edge of live-fire testing, where systems are pushed, missions are validated, and success is non-negotiable.



**Wideband Systems, Inc.**

# Your top companies



## TAKING TELEMETRY INTO HUMAN SPACEFLIGHT

### UNWRAPPING THE WIN

Some missions don't just collect data. They carry people.

In 2025, Wideband delivered DRS8300X ground recorders to support a commercial launch program built to send passengers beyond the Kármán line and bring them safely home. These flights demand flawless data capture through max Q, ascent, microgravity, and reentry, with zero tolerance for gaps, failures, or guessing.

The DRS8300X delivered exactly what the mission required: high-fidelity, high-integrity telemetry recording engineered for critical launch support where every packet, frame, and data bit matters.

WSI technology is now part of the ground systems backbone enabling next-generation human spaceflight, supporting missions that redefine what's possible beyond Earth.



**You went to**

**39**

**trade shows in 2025**

Across continents, industries,  
and mission domains.



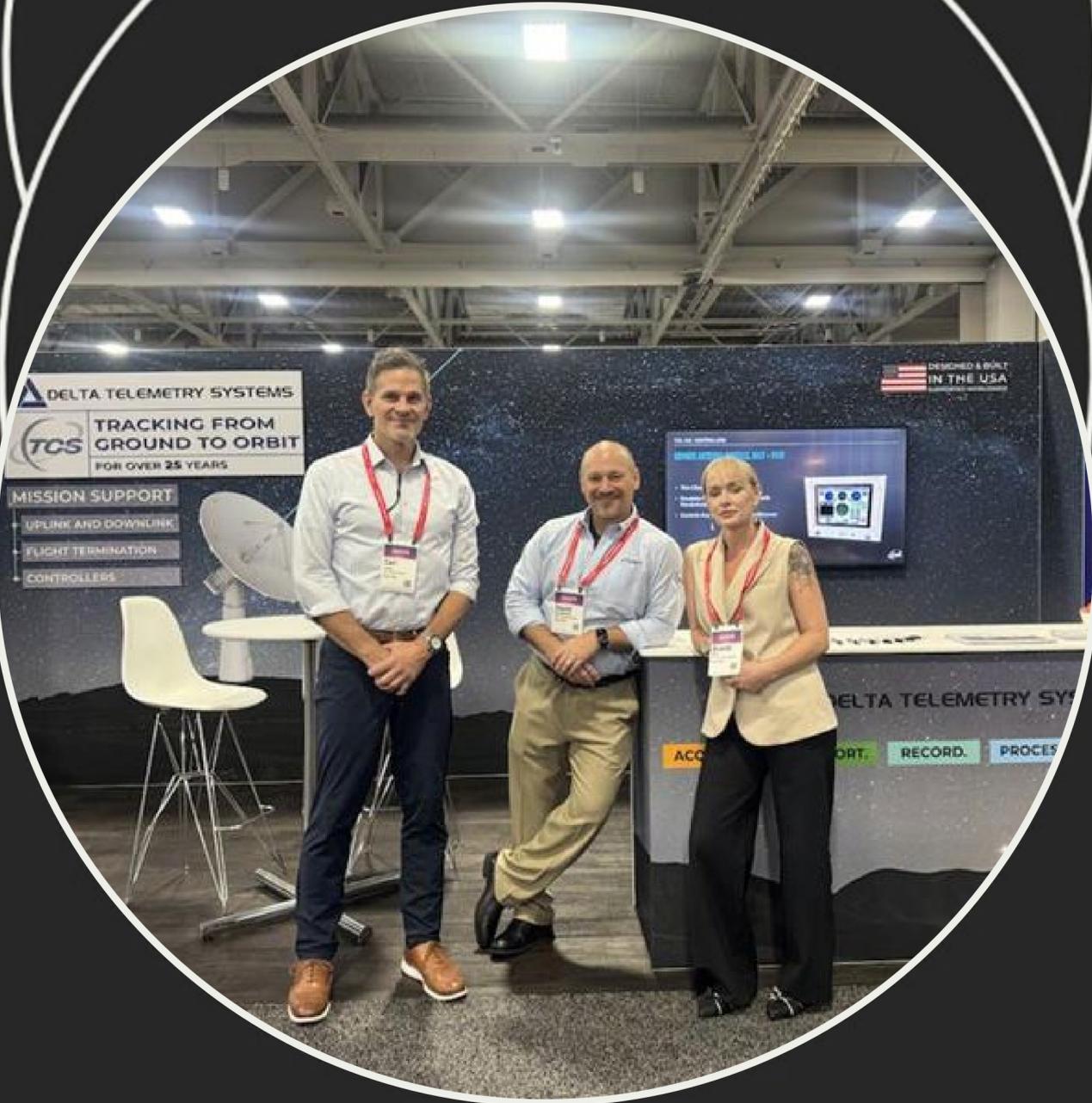
# Your top shows include Sea, Air, Space

April 7 – 9  
Nat'l Harbor, MD  
Ampex



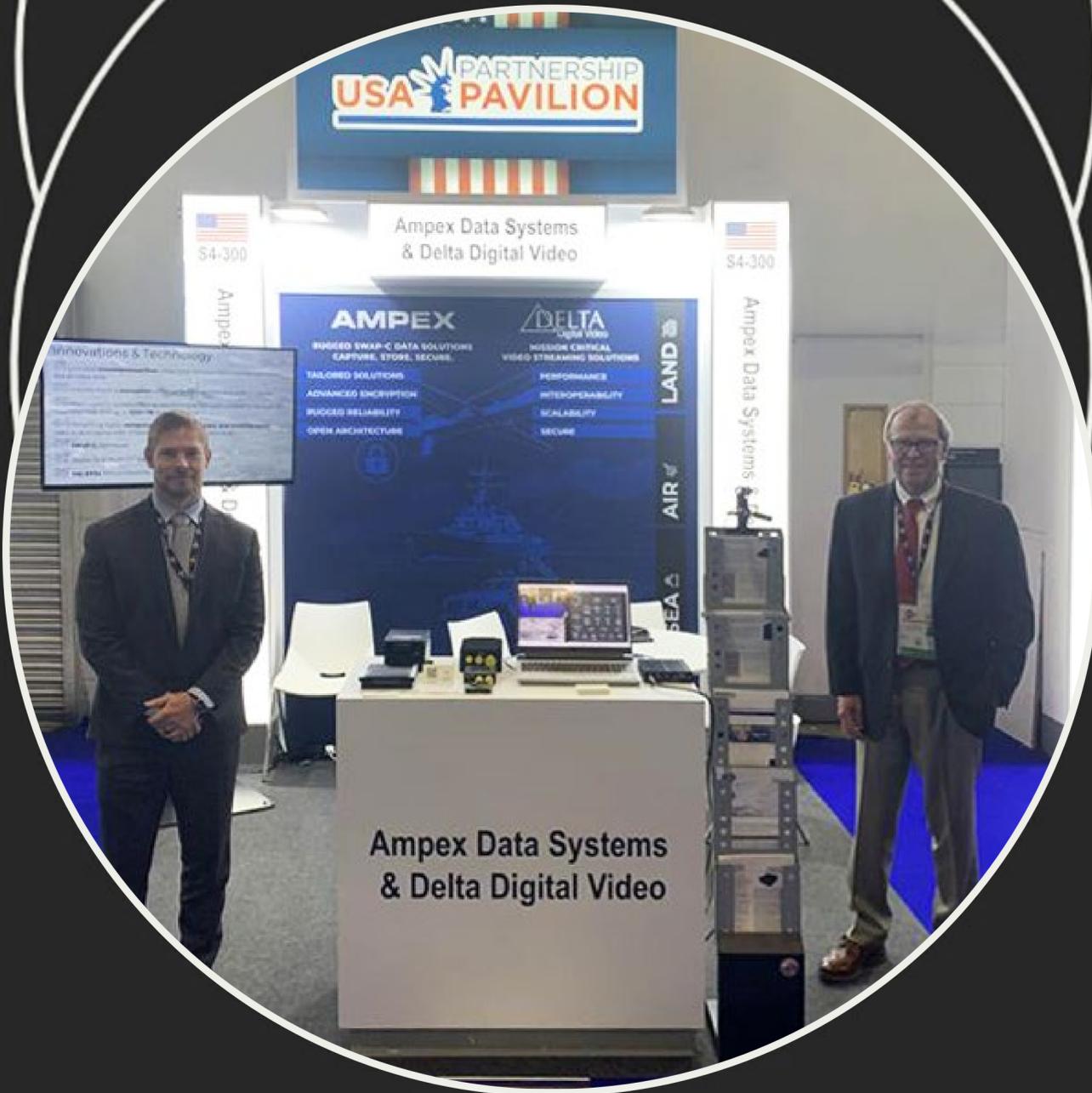
# Your top shows include InfoComm

June 11 – 13  
Orlando, Florida  
Delta Digital Video



# Your top shows include Small Satellite

Aug 11-13  
Salt Lake City, Utah  
TCS



# Your top shows include **DSEI**

Sep 9 – 12

EXCEL, London

Delta Mission Systems

Ampex & Delta Digital Video



# Your top shows include **Aerospace Testing & Development**

Sept 30 - Oct 1

Toulouse, France

Delta Telemetry Systems

Acroamatics, GDP, TCS, WSI



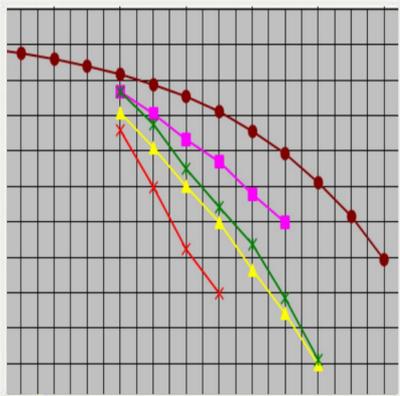
# Your top shows include ITC

Oct 20 - 23  
Las Vegas, NV  
All Companies



# Your top stories

1



## Data Quality Estimation: Two Main Techniques With Strengths & Weaknesses

By John Carlson, GDP

2

**AMPEX**  
DATA SYSTEMS CORPORATION

**Feature Creep for Efficiency**

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**Abstract:**  
For most project managers, additions to the scope of a project are problematic: not only must the project complete its original goals, but also new ones. And while cost is naturally important, perhaps the biggest challenge is adapting the design of a system to incorporate new functionality, which may lead to inefficiency in development and implementation. This paper describes the sequence of scope changes to a data collection system, and how collaboration between the customer, the end user and the suppliers increased the functionality of the solution as the capabilities expanded. The result is a system which started as a simple data collection device and has evolved into a traffic management system handling data format conversion, security oversight, instrumentation command and control, traffic routing, and, still, data collection. This paper provides insight into the process by which the new functionality was implemented, illustrating how economies of power, mass and volume can be achieved by the use of specialist software running on versatile hardware. That process is in contrast to the more traditional "one box, one function" approach with hardware modules, which is undoubtedly elegant but also less efficient than a software-centric design.

**Key words:** Data acquisition & networks, Networks & Architecture, Data Management, Applications, Data Management Standards, Security of data, links and networks.

## Feature Creep for Efficiency

By Malcolm Weir, Ampex

3



## Supporting F-16s & F-35s in South Korea

Delta Telemetry Systems

4



## DTS Powers ICBM Reentry Vehicle Test with E2E Telemetry Systems

Delta Telemetry Systems

5

**Video Compression Optimization for Telemetry Applications**

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Delta Digital Video, Torrance, PA, USA

**Abstract:** Video compression and transport methods are critical components of a video telemetry system. Meeting video quality, resolution, frame rate, latency, and interoperability requirements can be a challenging assignment against limited bandwidth and platform 32-bit/24-bit constraints. A range of video compression and transport options is presented, from highly compressed H.264, to options in progress, from high compressed H.265, to non-compressed, as well as an overview of H.264, H.265, and H.266-related technologies. The benefits and disadvantages of the different options are described, along with real-time metadata, ground network video distribution, and video recording concerns.

**Keywords:** Video Compression, H.264, HEVC, H.265, H.266, H.267, H.268, H.269, H.270, H.271, H.272, H.273, H.274, H.275, H.276, H.277, H.278, H.279, H.280, H.281, H.282, H.283, H.284, H.285, H.286, H.287, H.288, H.289, H.290, H.291, H.292, H.293, H.294, H.295, H.296, H.297, H.298, H.299, H.300, H.301, H.302, H.303, H.304, H.305, H.306, H.307, H.308, H.309, H.310, H.311, H.312, H.313, H.314, H.315, H.316, H.317, H.318, H.319, H.320, H.321, H.322, H.323, H.324, H.325, H.326, H.327, H.328, H.329, H.330, H.331, H.332, H.333, H.334, H.335, H.336, H.337, H.338, H.339, H.340, H.341, H.342, H.343, H.344, H.345, H.346, H.347, H.348, H.349, H.350, H.351, H.352, H.353, H.354, H.355, H.356, H.357, H.358, H.359, H.360, H.361, H.362, H.363, H.364, H.365, H.366, H.367, H.368, H.369, H.370, H.371, H.372, H.373, H.374, H.375, H.376, H.377, H.378, H.379, H.380, H.381, H.382, H.383, H.384, H.385, H.386, H.387, H.388, H.389, H.390, H.391, H.392, H.393, H.394, H.395, H.396, H.397, H.398, H.399, H.400, 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**1. Introduction**  
Video telemetry requirements can vary significantly in application range from real-time display of video telemetry over radio data links to ground video distribution and high-quality recording applications. Depending on acceptable limits of the key metrics of video quality, latency, and bandwidth, the type of video compression technology selected for an application can range from highly compressed video, to highly compressed, to uncompressed transport.

An overview of a range of video telemetry options is presented, from highly compressed, H.264 encoding, medium and light compression with H.265, H.266, H.267, H.268, H.269, H.270, H.271, H.272, H.273, H.274, H.275, H.276, H.277, H.278, H.279, H.280, H.281, H.282, H.283, H.284, H.285, H.286, H.287, H.288, H.289, H.290, H.291, H.292, H.293, H.294, H.295, H.296, H.297, H.298, H.299, H.300, H.301, H.302, H.303, H.304, H.305, H.306, H.307, H.308, H.309, H.310, H.311, H.312, H.313, H.314, H.315, H.316, H.317, H.318, H.319, H.320, H.321, H.322, H.323, H.324, H.325, H.326, H.327, H.328, H.329, H.330, H.331, H.332, H.333, H.334, H.335, H.336, H.337, H.338, H.339, H.340, H.341, H.342, H.343, H.344, H.345, H.346, H.347, H.348, H.349, H.350, H.351, H.352, H.353, H.354, H.355, H.356, H.357, H.358, H.359, H.360, H.361, H.362, H.363, H.364, H.365, H.366, H.367, H.368, H.369, H.370, H.371, H.372, H.373, H.374, H.375, H.376, H.377, H.378, H.379, H.380, H.381, H.382, H.383, H.384, H.385, H.386, H.387, 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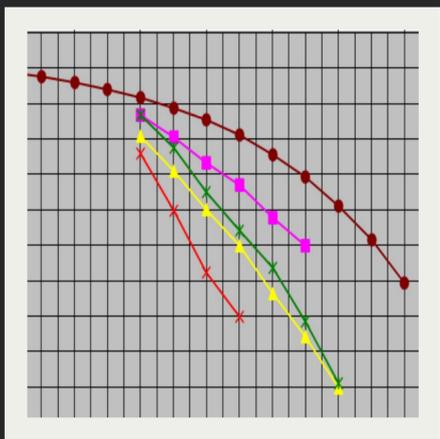
**2.1 Latency Considerations**  
Video telemetry applications which are low and constant video latency should take into account two characteristics of near-real-time H.264 video that are potentially cause latency. The first characteristic is the larger size of inter-coded frames in comparison to intra-coded frames which can cause latency for constant bit rate data links. Since intra-frame compression is more efficient than inter-frame compression, intra-coded frames of similar

## Video Compression Optimization for Telemetry Applications

Delta Digital Video



# Your top stories



## Data Quality Estimation: Two Main Techniques With Strengths & Weaknesses

### UNWRAPPING THE WIN

For decades, Antenna Control Units (ACUs) relied on signal strength alone to decide which antenna to trust. But in modern telemetry environments, stronger does not always mean better. Interference, distortion, and multipath can turn high SNR into bad data.

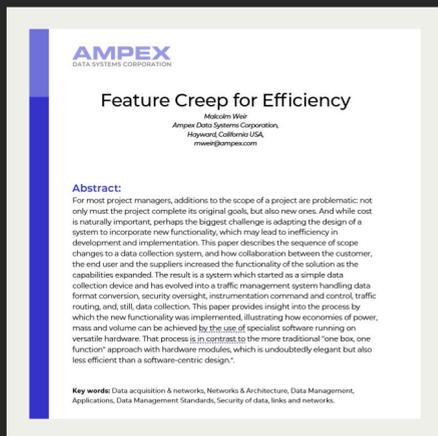
Data Quality Estimation (DQE) changes the game. By evaluating the actual integrity of the data stream rather than raw signal level, DQE enables smarter antenna selection, cleaner tracking, and more reliable telemetry under real-world conditions.

John Carlson's whitepaper breaks down the two primary DQE techniques, their strengths, and their tradeoffs, delivering a practical framework for engineers who need certainty when it matters most.

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# Your top stories



## Feature Creep for Efficiency

### UNWRAPPING THE WIN

In mission systems, adding capability often comes at the cost of complexity, weight, power, and reliability. Over time, incremental feature additions can quietly erode the very performance they were meant to improve.

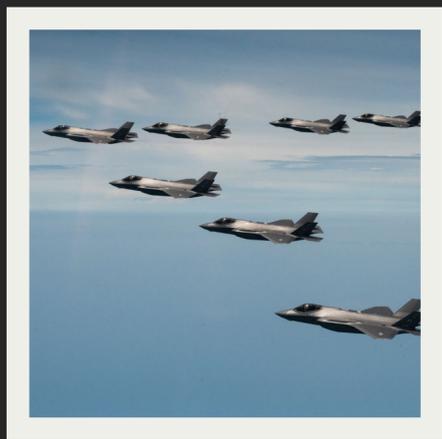
In this piece, Ampex CTO Malcolm Weir challenges conventional thinking around system growth, arguing for intentional design choices that prioritize efficiency, scalability, and long-term mission value.

The result is a clear, engineering-driven perspective on how disciplined architecture decisions enable higher performance systems without unnecessary overhead, proving that smarter design beats bigger systems every time.

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## Your top stories



### Supporting F-16s & F-35s in South Korea

#### UNWRAPPING THE WIN

Supporting live flight operations for advanced fighter platforms demands absolute reliability, secure data handling, and seamless interoperability across complex environments.

Delta Telemetry Systems delivered end-to-end telemetry solutions to support F-16 and F-35 operations in South Korea, ensuring critical flight test and training data was captured, transported, and analyzed without compromise.

This deployment highlights DTS's ability to support allied forces with proven, field-ready telemetry systems that perform under operational conditions where failure is not an option.

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## Your top stories



### DTS Powers ICBM Reentry Vehicle Test with E2E Telemetry Systems

#### UNWRAPPING THE WIN

Reentry vehicle testing pushes telemetry systems to their limits, with extreme dynamics, high data rates, and zero tolerance for data loss.

For this ICBM reentry vehicle test, Delta Telemetry Systems delivered a fully integrated, end-to-end telemetry architecture, enabling reliable acquisition, transport, recording, processing, and analysis across the entire mission profile.

The successful test reinforced DTS's role as a trusted provider for the most demanding national defense programs, where complete system performance is the only acceptable outcome.

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# Your top stories



## Video Compression Optimization for Telemetry Applications

### UNWRAPPING THE WIN

Telemetry video demands more than compression, it demands precision. Low latency, high fidelity, and deterministic performance are critical when video is used for decision-making, not just viewing.

Delta Digital Video breaks down how modern compression techniques can be optimized specifically for telemetry applications, balancing bandwidth efficiency with image integrity and operational reliability.

This story delivers practical insight into how purpose-built video compression enables better situational awareness across flight test, range, and mission systems without sacrificing performance when it matters most.

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**Well...that's a wrap!**

Thanks for walking through 2025 with us.

Here's to pushing the mission  
further in 2026.

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