T-Mobile

Haivision 5G ultra-low latency cellular video technology powers a key T-Mobile All-Team event

Get a Free Demo
(/free-consultation/?FromSource=t-mobile-case-study)

About T-Mobile

(https://www.t-mobile.com/)

T-Mobile (NASDAQ: TMUS) (https://www.t-mobile.com/) is a leading U.S. wireless provider headquartered in Bellevue, Washington. The company delivers nationwide 4G LTE and 5G services, aiming to provide reliable and accessible connectivity across the country. Through its brands—T-Mobile, Metro by T-Mobile, and Mint Mobile—it offers a range of wireless plans designed to meet diverse customer needs. T-Mobile is known for challenging industry norms and promoting greater competition and innovation in the telecommunications sector.

"Haivision's ultra-low latency mobile video technology, combined with the power of a dedicated 5G slice, enabled us to deliver a live production like never before. We achieved greater flexibility and significantly reduced costs – transforming how we approach live broadcasting in hard to reach areas."

Tim Wilkinson, Sr. Manager T-Studios Engineering/Webcast, T-Mobile

The Challenge

T-Mobile, one of the largest wireless network operators providing voice, messaging, and data services in the United States, regularly keeps employees informed about the latest corporate initiatives, products, and breakthroughs with regular all-team meetings that foster connection and alignment across the organization. Their Technology team recently held a meeting at its Overland Park, KS campus that was broadcast live with the support of T-Studios. In addition to the normal meeting broadcast, CTO John Saw wanted to showcase a live demo of new technology that could be experienced by both an in-person audience as well as broadcast to other locations via livestream.

To showcase a live demo of T-Mobile's new T-Satellite with Starlink solution, the team needed to broadcast a portion of the demo from a remote location back to the live presentation at the T-Mobile campus in real time.

Typically, they would rely on fiber connectivity or bring in a satellite truck for this workflow, but fiber was not available, and a satellite truck would be too costly. The other alternative was to broadcast the demonstration using only 5G cellular networks, something they hadn't done before.

The Solution

To transmit this live broadcast, T-Studios turned to Haivision's live video contribution solutions (/products/live-video-contribution/), the Haivision Pro mobile video transmitters (/products/haivision-pro460-transmitter/) and StreamHub receiver (/products/streamhub-receiver-decoder/), to send high-quality ultra-low latency video over a 5G cellular network into their live production.

From the T-Mobile campus, John Saw, T-Mobile's Chief Technology Officer, presented a demo of the company's new satellite service through a series of text messages exchanged with an employee located outside and off-campus, utilizing devices locked to the satellite constellation, despite terrestrial service being available. To demonstrate the reliability and speed of their satellite service and prove that the text messaging was happening live, the cameras would need to capture the demo and transmit it to the presentation in real time.

Two camera-mounted Haivision Pro 5G video transmitters were used to capture the live demo. One camera was focused on the person sending the text message remotely, and the other camera filmed the phone receiving the texts in real time through the satellite connection.

The Pro field units provided ultra-reliable low latency streaming (/blog/all/what-is-low-latency/)over the T-Mobile's 5G terrestrial network. For the first time, T-Studios

used a 5G networking slice to carry live video for an internal event. 5G slicing allows operators to take public cellular network [bandwidth](https://www.haivision.com/glossary/bandwidth/) and logically divide it to create dedicated virtual networks within one infrastructure. These 5G slices can be committed to a single portion of a workflow, providing enhanced reliability, flexibility, performance, and security.

The video feeds from the Pro field units were transmitted into a StreamHub receiver, located in a production studio and into the webcast being streamed to employees.

Tim Wilkinson Chief Engineer Sr. Manager, T-Studios Engineering/Webcast at T-Mobile explained:

"To showcase the reliability and speed of the T-Satellite solution to T-Mobile employees, the demo had to be broadcast truly live, and all done in real time. We were able to lock our test devices on to T-Satellite, since the terrestrial network was still available and Haivision's ultra-low latency mobile video technology combined with the dedicated 5G slice enabled us to execute this live production in a way we've never been able to do before – allowing us to do it with lower costs and more flexibility."

The Result

The combination of T-Mobile's slice on its terrestrial network and the Haivision Pro's robust set of features, including ultra-reliable cellular connectivity and ultra-low latency live video, led to a very successful live demonstration of the speed of the T-Satellite solution.

Haivision Pro mobile video transmitters (/products/mobile-video-transmitter-solutions/), used for sports broadcasting (/industries/broadcast-solutions/), live event production, and newsgathering, are designed for live video contribution (https://www.haivision.com/glossary/video-contribution/) over bonded cellular and IP networks from anywhere. For T-Studios, the flexibility, reliability, and ultra-low latency of the solution was essential to the success of this high-profile technology demo.

"The Haivision Pro and StreamHub solutions made everything so much easier for my team," said Tim Wilkinson. *"The reliable connectivity of the Pro transmitter combined with its super-low latency showed us that we can rely on this technology to produce future broadcast-quality events practically anywhere."*

Products Used

(https://www.haivision.com/products/streamhub-receiver-
decoder/)

Haivision StreamHub (https://www.haivision.com/product/stream hub-receiver-decoder/)

Receiver/Gateway

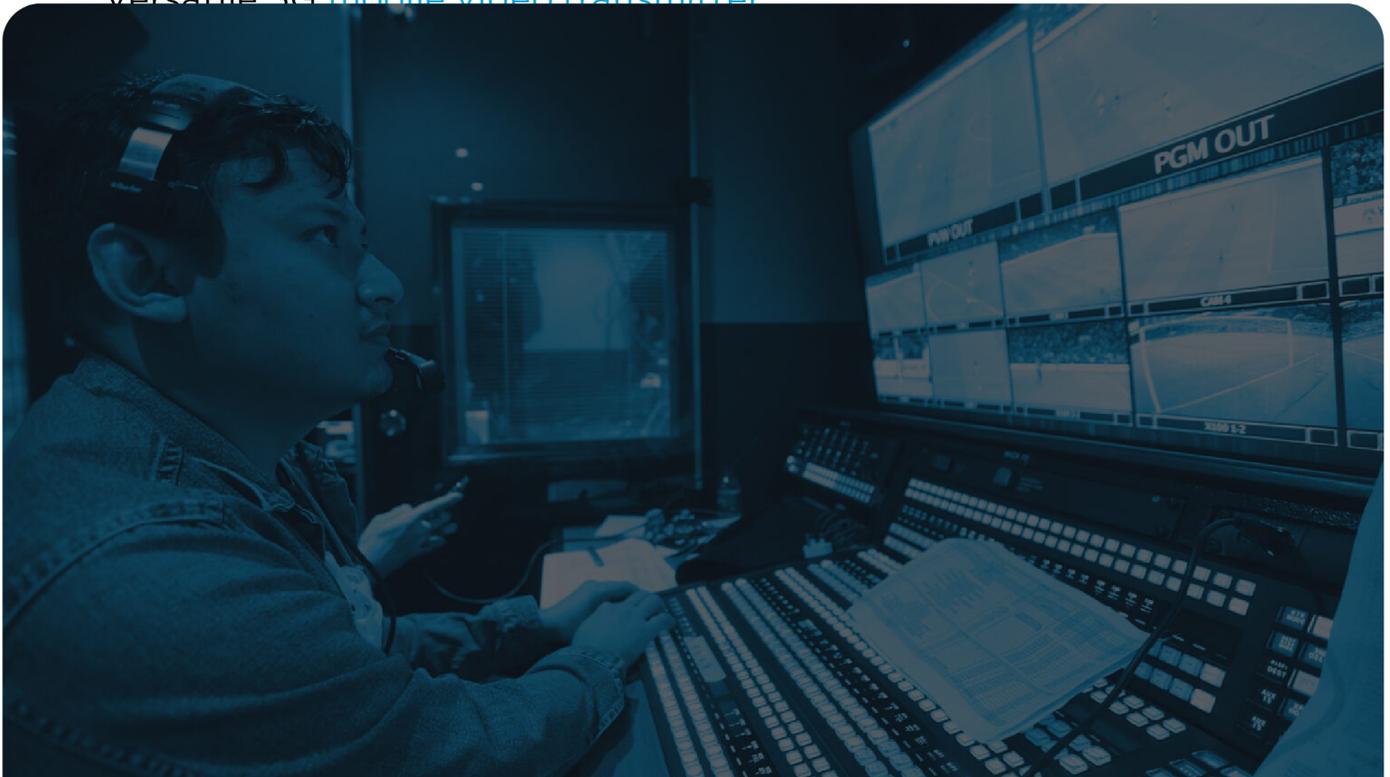Mobile and IP stream receiver, decoder, and distribution platform supporting SDI, NDI, ST 2110, SRT, and SST.

(https://www.haivision.com/products/haivision-pro460-transmitter/)

Haivision Pro460 (https://www.haivision.com/products/haivision-pro460-transmitter/)

Video Transmitter

Versatile 5G mobile video transmitter

Related Solution

›

(https://www.haivision.com/products/live-video-contribution/)

Live Video Contribution (https://www.haivision.com/products/live-video-contribution/)

›

Our secure & reliable live video solutions offer pristine-quality broadcast contribution over any network, even internet, satellite, 4G, & 5G.

Ready to Learn More? Contact Us to Get Started

Contact Us Today
(/free-consultation/?FromSource=case-study-t-mobile)

Related Case Studies

(https://www.haivision.com/case-studies/skyrace-matheysins/)

SkyRace® des Matheysins (https://www.haivision.com/case-studies/skyrace-matheysins/)

Case Study | 3 min read

Favoriz uses Haivision technology for agile live production in the French Alps for the 2025 SkyRace® des Matheysins.

(https://www.haivision.com/case-studies/switzerlands-national-league-hockey/)

(https://www.haivision.com/case-studies/switzerlands-national-league-hockey/)
Switzerland's National League Hockey
(https://www.haivision.com/case-studies/switzerlands-national-league-hockey/)

>

Case Study | 4 min read

Explore how MySports brings Swiss hockey fans closer to the action with Haivision's
remote production technology.

(https://www.haivision.com/case-studies/obsess-medias/)

(https://www.haivision.com/case-studies/obsess-medias/)

Courchevel Ski Mountaineering Sprint (https://www.haivision.com/case-studies/obsess-medias/)

Case Study | 3 min read

Haivision and Obsess Medias delivered agile live coverage of the Courchevel Ski Mountaineering Sprint.

About

About Haivision (/about/)

Leadership Team (/about/leadership-team/)

Investor Relations (https://ir.haivision.com/overview/default.aspx)

Careers (/about/careers/)

Events (/events/)

Press Releases (/about/press-releases/)

Awards (/about/awards/)

Logos (/logos/)

Blog

All (/blog/)

Broadcast Video (/blog/category/broadcast-video/)

Enterprise Video (/blog/category/enterprise-video-answers/)

Government Video Solutions (/blog/category/government-video-solutions/)

Live Video Streaming (/blog/category/live-video-streaming/)

Resources

Case Studies (/case-studies/)

Documentation (/resources/documentation/)

Podcast (/resources/haivision-podcast/)

Webinars (/resources/webinars/)

White Papers (/white-papers/)

Video Walls 101 (/video-walls-101/)

HAIVISION

(https://www.haivision.com)

Web Terms of Use   Privacy and Cookies   Legal