

CASE STUDY

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How medDV
Delivers Real-Time
Telemedicine
Support Through
Reliable Video
Streaming



CASE STUDY: medDV

How medDV Delivers Real-Time Telemedicine Support Through Reliable Video Streaming

HELPS DOCTORS MANAGE UP TO 5 AMBULANCE MISSIONS SIMULTANEOUSLY WITH VIDEO.

medDV, a pioneer in digital solutions for emergency medical services, has spent over 20 years transforming ambulance documentation and mission workflows. Recently, they expanded into telehealth, enabling doctors to assess emergencies remotely.

With Wowza powering live video streaming, medDV delivers the low-latency, reliable solution required for real-time telemedicine support.



SCALABILITY

Handles multiple simultaneous ambulance streams with ease through Wowza's cloud-based infrastructure.

RELIABILITY

Ensures doctors can monitor mission areas without interruption, even in non-optimal network conditions.

FLEXIBILITY

Integrates stationary cameras, smartphones, and backend systems via Wowza APIs for seamless deployment.

GOALS

- Provide remote doctors with real-time video streaming directly from ambulances and mission areas.
- Ensure minimal delay in video delivery so physicians can make fast, accurate decisions in critical situations.
- Build a scalable infrastructure to support multiple parallel missions across vehicles and locations.
- Simplify and automate vehicle onboarding, reducing manual effort and human error.

RESULTS

- Achieved real-time video streaming with next to no delay, giving doctors immediate visibility into emergencies.
- Used Wowza APIs to automate vehicle onboarding, creating streaming rooms seamlessly within medDV's backend.
- Enabled doctors to oversee and manage up to five missions at once, improving efficiency.
- Delivered a flexible, hybrid streaming setup that supports stationary cameras, mobile devices, and future expansion.



THE STORY

For more than two decades, medDV has been modernizing emergency medical workflows in Germany, beginning with digital documentation solutions for ambulances and expanding into a broad portfolio of mission tracking, clinic integration, and real-time data sharing. Their recent entry into telehealth is a natural step forward in this mission, giving doctors the ability to support paramedics remotely with speed and confidence.

Video became essential about three years ago when medDV introduced a tele-emergency physician program. Initially, the team used basic conferencing software like Jitsi. While functional, this created significant limitations. A doctor could only join a single call at a time, yet in practice they are often responsible for three to five active cases. Without broader visibility, physicians lacked the ability to triage situations effectively or provide timely guidance across multiple emergencies.

To address this challenge, medDV developed a comprehensive dashboard that aggregates vital signs, GPS-based location data, and most importantly, live video feeds. Stationary cameras in ambulances and temporary smartphone-based cameras in mission areas provide direct visibility into each emergency. **For the system to succeed, video delivery needed to be fast, reliable, and adaptable to the unpredictable conditions of mobile networks.**

Wowza provided the technology to make this possible. Before the partnership, medDV relied on a manual, file-based solution that introduced delays of nearly five seconds. **By switching to Wowza, they achieved real-time streaming with next to no delay.** In emergency care, even a few seconds of latency can directly affect patient outcomes, making low-latency streaming indispensable.

Wowza also proved resilient in environments where bandwidth was limited. **During testing in non-optimal conditions, streams remained stable and reliable, which gave medDV confidence that the solution would work in real-world deployments.**

Another advantage has been scalability and automation. Using Wowza's APIs, medDV created a process where new virtual vehicles in their backend automatically generate a streaming room. This simplified onboarding, reduced errors, and eliminated repetitive manual tasks. **For video developers building healthcare or monitoring solutions, this demonstrates how Wowza's API-driven approach can integrate seamlessly into custom workflows.**

The result is a flexible and future-ready streaming system that combines stationary and mobile cameras with reliable real-time delivery. With Wowza at the core, medDV enables doctors to oversee multiple emergencies simultaneously, reduce response times, and expand telehealth capabilities without adding unnecessary complexity. As medDV equips more ambulances, their solution shows how real-time video streaming can transform healthcare delivery, supporting doctors and paramedics where every second counts.



WHAT MADE US CHOOSE WOWZA IN THE END WAS THE REAL-TIME STREAMING WITH NEXT TO NO DELAY. IT'S ESSENTIAL FOR DOCTORS MANAGING MULTIPLE EMERGENCIES AT ONCE."

FLORIAN BLAUM, PRODUCT & PROJECT MANAGER, MEDDV

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