

# Case Study: KDDI

#### **Leveraging Smart Drones and Mobile Communications**

### **About KDDI**

KDDI Smart Drone, a spin-off from KDDI
—one of Japan's leading
telecommunications companies—is at
the forefront of using drone technology
to address pressing social issues.
Founded on the principle that "drones x
mobile communications = smart
drones," KDDI Smart Drone combines its
expertise in mobile and wireless
communication to unlock the full
potential of drone applications in
society.



## Challenge

- Diverse Video Protocols: Each manufacturer uses its own protocol, and while they primarily worked with SRT for secure and reliable streaming, many drones did not support this protocol. They needed a solution that could integrate multiple protocols seamlessly.
- Limited Platform Accessibility: Their original client application was Android-only, restricting access for users on other platforms and devices. Expanding support was necessary to increase reach and usability.
- Need for Low-Latency Video Viewing: For real-time applications, low latency was critical. Rebuilding the app as a web-based platform would enable cross-platform support and provide a faster, more responsive video experience.



## Solution

Initially, KDDI explored using **AWS** video services. However, they encountered limitations such as low latency (<1 sec), multi-protocol support, automatic switching according to communication (adaptive) and high cost.

By implementing Ant Media Server, KDDI achieved several key advantages:

- Ultra-Low Latency: We deliver video latency below 1 second, ensuring real-time responsiveness for your applications.
- Multi-Protocol Support: Our flexible protocol support simplifies integration with various drone models and minimizes impact on existing systems.
- On-Demand Usage: Our licensing model allows easy scaling and helps to reduce unnecessary costs.
- Adaptive Streaming: We ensure stable, high-quality streams by adapting to each client's network conditions, even in fluctuating environments.
- Multi-Site Distribution: We support multi-site distribution, enabling to broadcast to multiple locations simultaneously without compromising performance.



