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LIVE•

SECURELY SHARE LIVE• DRONE VIDEO FEED WITH TEAM AND CLIENTS

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Remote Access to Drone Fleet, Live Video Feed & Telemetry

Enterprises worldwide are scaling their drone operations, as cost-effective drones become available off-the-shelf, and cloud-based SaaS solutions drive intelligent automation. One of the key drivers of drone fleet adoption is the ability for a variety of stakeholders to participate in drone missions. For example, an inspection of a wind turbine may involve on-site visual observers, remote subject-matter experts, safety managers from regional offices, R&D teams from corporate offices, technology partners – and even UAV regulators who seek insights into such missions before granting waivers for unmanned flights.

Live, remote drone operations thus require not only low-latency, high-quality video feeds, but also the ability to seamlessly share such video streams across people, geographies, devices and networks. In fact, enterprise drone programs tend to involve a variety of drone hardware – including off-the-shelf drones like DJI Mavic 2 Pro, Mavic 2 Enterprise, Matrice 210/210RTK, M600 Pro, etc., for day-to-day operations and custom drones built using DJI A3, Pixhawk or Cube based autopilots with high-end sensors for rare but critical use-cases.

User-level Access to Drone Missions

Given that privacy and security remain amongst the top concerns in the global drone ecosystem, enterprises have to carefully manage access to drone telemetry, live video streams, navigation, and payloads. With multiple, remote participants in each mission, fine-grained access – based on the roles and responsibilities of each participant – becomes central to successful drone operations.

Guest Link Sharing

It can be argued that many **drone operations would be significantly more productive if secure, mission-wise remote viewing can be made available**, over the Internet, via a user-friendly interface. Whether it's a drone service provider monitoring construction sites or whether it's the in-house drone operations manager supporting his/her colleagues for inspection of infrastructure assets, the access to live video streams – securely & remotely – can create immediate business value by enabling subject-matter experts to make better-informed decisions.

In fact, not only can remote viewers be empowered to access live video feeds in real-time, but remote operators can be given control of the drone, camera gimbal and payloads, with the on-site team serving as safety pilots and visual observers. Automating such live, remote drone operations then becomes **the logical next step in the evolution and maturing of enterprise drone programs.**

Drone Videos on Mobile Phones

Given the pervasiveness of mobile phones and tablets across businesses in all sectors, it is but natural for drone mission participants to expect these devices to be an integral part of the overall system. This is now easily possible via enterprise-grade mobile apps that can be easily customized, white-labeled and configured – making drone telemetry & videos extremely portable, especially in areas with robust 4G/LTE/5G networks.

Share Live Map Views, Drone Fleet Location & other Critical Data

Remote access for 'guest' participants in drone missions need not be limited to video – since live map views can also be seamlessly shared over the cloud, showing guest viewers the waypoints, flight paths, obstacles, etc. for each mission. Third-party maps can be integrated to overlay drone missions on satellite imagery, specific drones/payloads can provide IR/thermal camera views to remote stakeholders, and missions such as parcel delivery can be remotely monitored not only over the last-mile but all the way to the 'doorstep'.

Aerial video streaming is thus becoming the core of drone operations for operators, service providers, system integrators and large enterprises – with secure, user-level access for remote participants the 'killer app' of this technology.

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