



Smart Airport Solutions

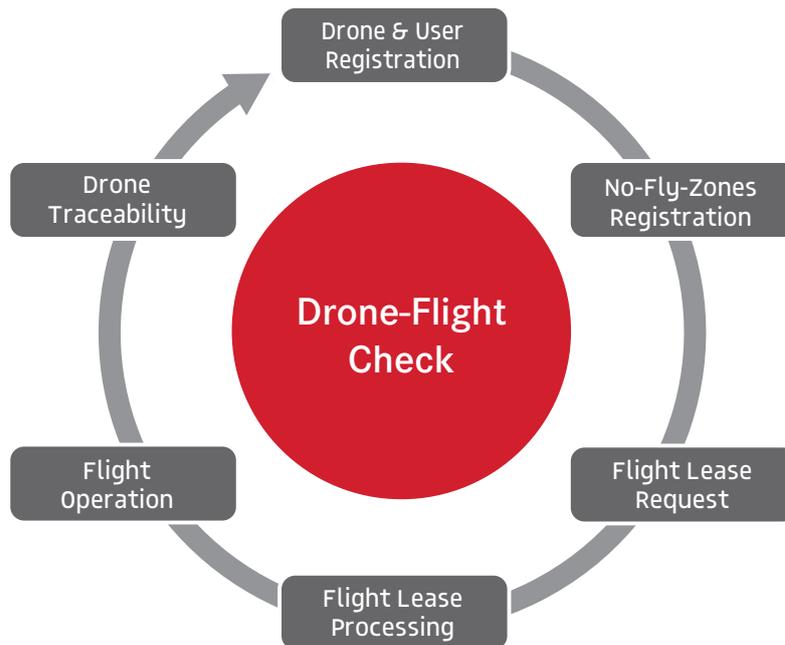
Drone-Flight-Check

Drone traffic management
for enhanced safety & regulation

Drone-Flight-Check

As the number of drones for professional and recreational use irresistibly increases, concerns equally rise on aeronautical and public safety and homeland security. Appropriate regulation and traffic management tools have to be implemented to smartly authorize where and when the users can fly their drones.

Drone registration, user-friendly flight approval mechanisms, geo-fencing and drone traceability, which are all integrated into the Drone-Flight-Check concept from LS telcom, form a drone information management system in line with the ultimate objective of a future "Unmanned Aerial Systems Traffic Management" (UTM) system.



Drone-Flight-Check Processes

The key of the Drone-Flight-Check solution is to dynamically link the registration database and the individual flight lease requests of the users to an area database where all no-fly-zones or limited fly-zones are centralized and updated. This shall for example prevent a user to fly into a temporary no-fly-zone or enable only specific categories of drones/users to fly into a specific area.

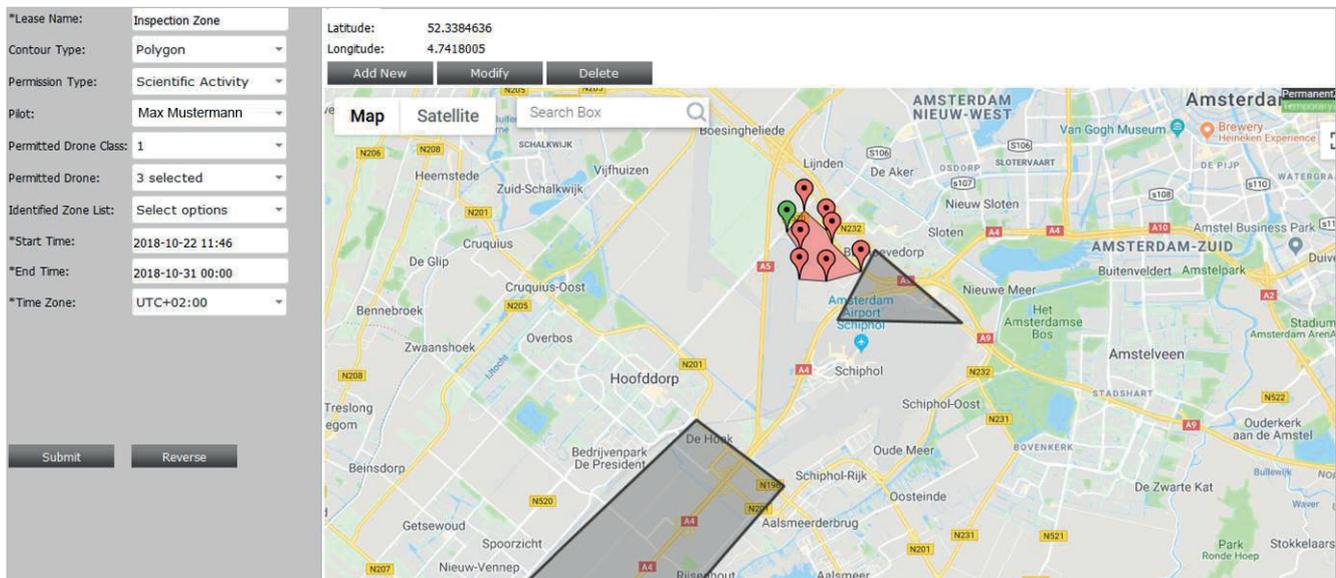
The platform enables drone users to verify where and when they may fly. On top of that, the release and referencing of a flight by the system (done automatically in standard cases) or its rejection, adds to the safety of any drone flying operation. The system also provides authorities with the possibility to track and verify the authorization of a drone while in operation.

Drone traffic management for enhanced safety & regulation

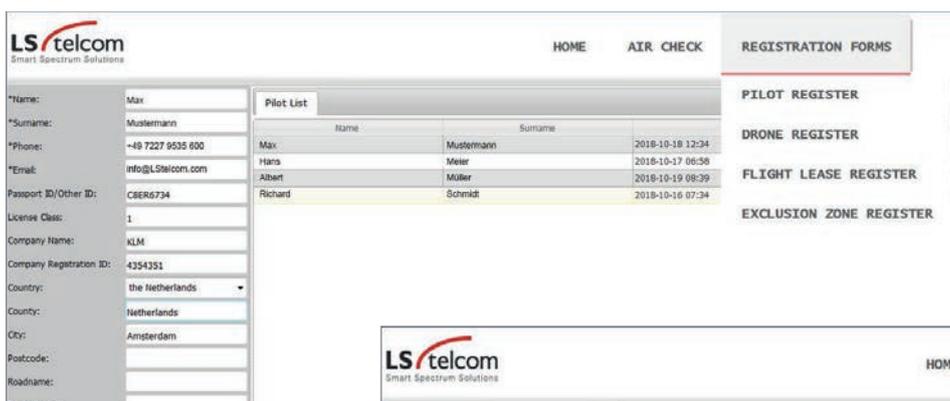
- User & pilot registration & management
- Drone registration & management
- Management of No-fly & Limited-fly zones
- Flight permission management
- Drone traceability by interfacing radar systems

Allow the **directed, managed & controlled** commercial usage of drones on airports...

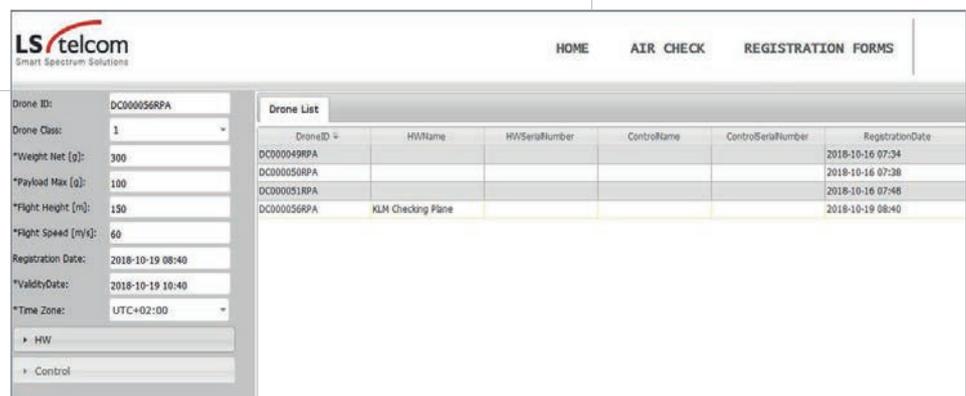
... and at the same time ensure that **only the whitelisted** drones are used according to **agreed terms**.



Flight permission application



Pilot registration



Drone registration

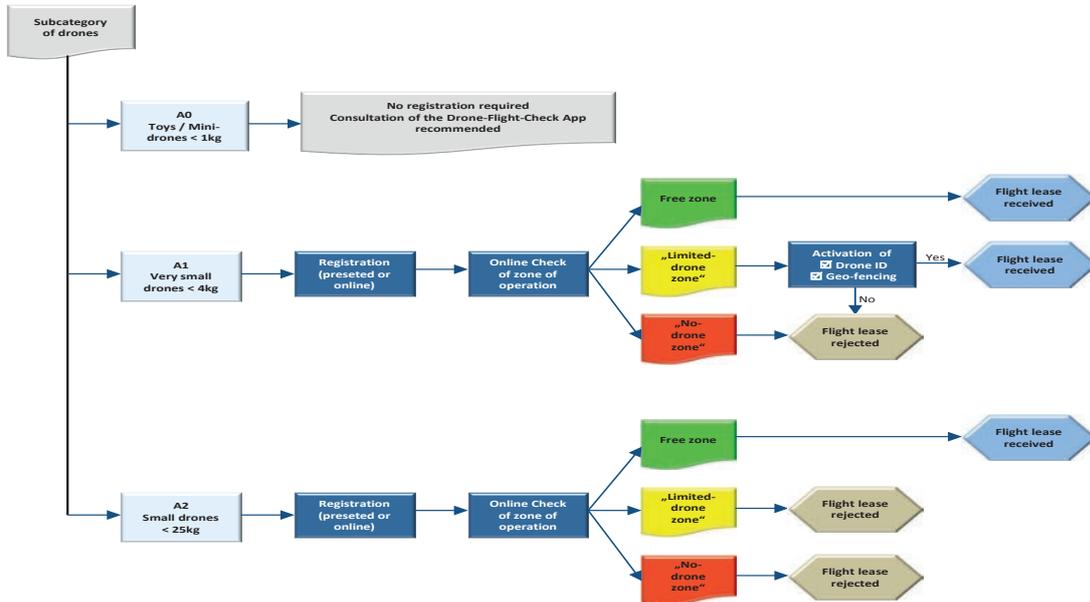
Drone traceability

Drone-ID based on proprietary RF module (other electronic-ID solutions can be integrated into the Drone-Flight-Check platform) continuously transmits the digital number plate, the lease ID and the flight status and can therefore enable enforcement entities to verify the legality of a drone during operation.

By connecting the database system to external drone radar systems, the traceability & identification of legal and illegal drones can be assured. By mapping the digital number plate of the drone with the current approvals in the system, the operator can right away distinguish between known, unknown but also known but not for flight operations cleared drones.



Possible classification process for flight authorization



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