DroneID Project



Drone Identification and Activity Monitoring - First steps towards UTM



Background:

The growth in applications of drones, challenges the regulations for the use of drones.

The success of commercial drone industry requires the population's confidence in secure and lawful operations.

DroneID is the first step towards UAS Traffic Management (UTM) in Denmark.

Project Goal:

To create a DronelD (electronic license plate) that allows authorities to identify drones and monitor drone activities.

Project Details

Pilots register online in national database. The license plate's signal is followed by authorities.

DroneID project explores two different communication architectures:

- Direct communication with the UTM server via GSM
- The drone transmits a radio beacon signal which is relayed via GSM by the pilot or nearby infrastructure or authorities in the area.

The DronelD must fit drones up to 25 kg. Focus is on ease of use, reliability, and size, weight and power consumption.

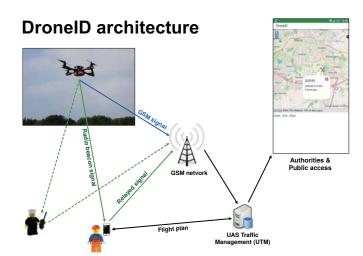
Future Perspective:

DroneID will enable authorities to identify and monitor drone activity and contact a drone pilot to e.g clear the airspace for a medical helicopter.

DroneID will be a valuable toool to the drone pilots concerning authorization of flights, awarenes of permanent and temporary no-fly zones etc.

Drone vendors may choose to embed the DroneID functionality into the drone hardware based on an open standard. The external DroneID is intended for drones without this functionality.

Results from the DronelD project will be released as permisive free open source.





FACTS:

Collaboration partners: University of Southern Denmark and the Danish Transport and Construction Agency

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