UAS BVLOS in Segregated Airspace

CAA Airspace Change Assessment Meeting
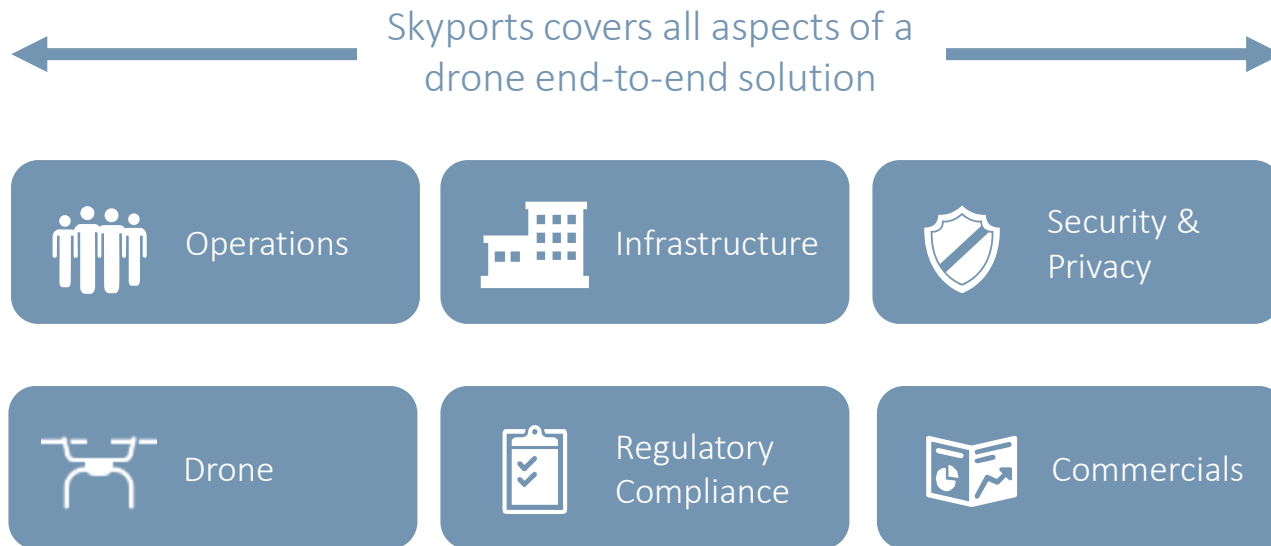
6 May 2020

CONTENTS

Skyports

develops, implements and operates end-to-end drone deliveries overcoming inefficiencies associated with traditional transportation methods within the medical, e-commerce and logistics sectors

Skyports is a cargo delivery one stop shop service provider

Skyports covers all aspects of a drone end-to-end solution

Operations	Infrastructure	Security & Privacy
Drone	Regulatory Compliance	Commercials

Skyports is a drone operator not a manufacturer. We choose the right vehicle for the mission and take care of all aspects of the end-to-end drone solution

We are committed to operating to the highest standards of safety

Overview of the Skyports vehicle for this mission

Wingcopter Heavylift 178

Range:
Up to 100km

Payload
Up to 6kg

1000s of BVLOS kilometres flown

Speed:
150km/h max, 90km/h cruise

Maximum take off weight:
16kg

Flight time:
Up to 120 minutes

Wind Resistance:
Up to 15m/s

Dimensions:
178cm x 132cm x 52cm

Power:
Electric

Communications:
failover radio / LTE / SatCom system

Cold Chain:
Tested cold-chain storage (when required)

Missions:
Delivery

CONTENTS

About Skyports

Statement of Need

Issues or Opportunities

Statement of Need

COVID-19 Response Need:

- Skyports has received a written request from an NHS Board in Scotland to aid them in their response to COVID-19

Proof of Concept (PoC):

- Skyports will operate a BVLOS drone delivery service during a week-long trial
- Skyports will deliver medical equipment to two NHS healthcare facilities in Argyll, Scotland

Objectives:

- Demonstrate the ability to operate BVLOS between the two medical facilities
- Skyports will test the integration of drones into the NHS supply chain

Segregation:

- Skyports believes it will require a volume of segregated airspace for the period of the PoC to execute its operations

CONTENTS

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COVID-19:

- The project is a direct industry response to the UK Government's call for help to address and mitigate the health and social impacts of the COVID-19 pandemic

Community Support:

- A medical drone delivery service has the potential to provide vital access to medical care for hard-to-reach communities

Scale-Up:

- A successful PoC has the potential to be the blue-print for a reliable and scalable medical drone delivery service

Stakeholders:

- Effects on local stakeholders may be minimised through amendments to airspace construction and processes made as a result of points and issues raised during the informal consultation exercise

Deconfliction:

- Skyports will have in place a robust process of airspace deconfliction to minimise impact on other airspace users

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