



Agenda

- Welcome & Anti-trust
- Regulatory work
 - JARUS 5
 - U SPACE consultation
 - JARUS6
 - Spectrum (PT1)
- Technical work
 - Remote ID
- Events
 - Connected Skies at the MWC Barcelona







Regulatory Updates

Marina Solin







Regulatory Work Stream

JARUS 5 Paper 'Cellular connectivity for drones'

Final draft due be released for external JARUS consultation

U-Space consultation

EASA workshop on 11 October and 3 week consultation process will go hand in hand. GSMA response is planned.



JARUS 6

JARUS Discussion 'Connectivity Performance Requirements in support of SORA'

- ☑ Brainstorming Workshop took place on the 1st of October in GSMA
- ✓ Ultimate objective: specify connectivity requirements for risk mitigation





Draft European report proposes restrictions on mobile bands

- Draft report proposes usage conditions that make mobile bands harder to use
 - Reduced power emission limits impact coverage & equipment plus some no fly zones
 - Report currently on hold due to Member State issue so public consultation is delayed

Band	Concerned services	Additional regulatory measures proposed for mobile (simplified summary)
700	Broadcasting & Radio Astronomy	No use on drones below 30 metres. Additional cross border coordination needed between countries.
800	Radio Astronomy	No fly zone around radio astronomy locations or additional filtering. Additional cross border coordination needed between countries.
900	Railways (GSM)	None so far
1800	Meterological satellite	Reduced power limit for mobile connection on drones
2100	Mobile satellite ground component, Railway	No fly zone around mobile satellite ground station: 2.5km- 15km (depending on power level). No fly zone around railway: 100-500m (depending on power level)
2600	Radio astronomy	Coordination around radio astonomy locations
3500	Satellite, radiolocation and radioastronomy	No fly zone: 26.7km- 290 km around fixed satellite earth station Significantly educed power limit for mobile connection on drones



Remote ID

Barbara Pareglio





GSMA

EASA timeline

Publication of Guidance Material (GM), Acceptable Means of Compliance (AMC) and first predefined risk assessments by EASA

Oct 2019

Publication of an Opinion by EASA proposing an amendment to the European regulation (Implementing Act) to add two standard scenarios to facilitate some operations posing a low risk only

Oct 2019

Publication of Opinion on U-space by EASA

Dec 2019

Registration of UAS operators & certified drones becomes mandatory

June 2020





MNOS remote ID solutions

- <u>Problem statement:</u> regulations on how to identify remotely drones are becoming a reality for different categories of drones. In some cases regulations require a broadcast solution and in other the network solution. <u>Mobile networks</u> are the most suitable network to fulfil the regulation.
- <u>Objective:</u> the mobile industry need to demonstrate how mobile network is able to support regulations, both for the open and specific categories (European version, US categories are quite similar). The objective is to describe how the identification can be achieved with the existing network technologies (e.g LTE, NB-IoT, 3G, etc.) and how it will evolve to 5G.
- <u>How:</u> create a dedicated task force to contribute to a guidelines or best practise document. The task force will define the actual details of the scope and timeline of the work. We are looking for a chair of the task force to drive the work.





Connected Skies

Graham Trickey







Connected Skies Event Series at MWC Barcelona 2020

- Ministerial Programme
 - Tuesday, 25th of February 4:15 pm 5:45 pm
- Connected Skies day (organized by GUTMA)
 - Wednesday, 26th of February 9 am 7 pm
- Possible main conference session





AOB

www.gsma.com/drones