

ECC PT1 #72

Date issued: 18 November 2022

Subject: Request for standardisation support: Implementation in harmonised standard of relevant components of ECC Decision (22)07 on “harmonised framework on aerial UE usage in MFCN harmonised bands”

To: Mr. Holger Butscheidt, ETSI ERM Chairman
E-mail: holger.butscheidt@bnetza.de

Cc: Mr. Michael Sharpe, ETSI, Director of Spectrum and Equipment Regulation
E-mail: Michael.Sharpe@etsi.org

Dear Holger,

ECC adopted harmonised operational and technical conditions for usage of aerial UE in MFCN harmonised bands¹ as ECC Decision (22)07 and would like to thank ETSI for the recent feedback² and offer of further cooperation with our ECC PT1 project team for the development of relevant ETSI standards in coherence with this framework.

According to this ECC Decision, an aerial UE refers to a UE supporting UAS features and services and requiring an aerial subscription. An aerial UE is installed either on-board an Unmanned Aircraft (e.g. drones) or on-board manned aircraft (e.g. helicopter). It identifies itself to the mobile network as being in this class. It should be noted that the scenario for commercial aircraft connectivity differs from those addressed by this ECC Decision.

ECC is inviting ETSI to include the following requirements in future ETSI harmonised standard on aerial UE in order to ensure a coherence with this ECC framework:

- additional OOB requirements applicable to aerial UEs in the following frequency bands 1710-1785 MHz, 2500-2570 MHz, 2570-2620 MHz, as defined by ECC Decision 22(07). In other frequency bands, OOB limits applicable to terrestrial UE remain unchanged for aerial UE.
- a mechanism/feature coherent with the above aerial UE definition in order to differentiate aerial UE, as defined by ECC Decision 22(07) from terrestrial UE operating under LTE/NR 5G networks
- differentiation of aerial UE from other terrestrial UE shall not be changed by the end-user
- the aerial UE shall not be capable to connect to LTE/NR 5G networks without aerial subscription

ECC welcomes any feedback on the time schedule for the implementation of the above requirements in future harmonised standards for aerial UE and expects that these HS would need to be developed and published

¹ ECC Decisions (15)01, (09)03, (06)13, (06)01, (05)05, ECC Report 309, ECC Report 348

² Documents ECC PT1(22)189 and ECC PT1(22)190

within the next 12-18 months in order to support the development of this usage with confidence of all spectrum users.

ECC also thanks ETSI for the willingness to further investigate a mechanism ensuring that aerial UE respect no-transmit zones and for the information on its implementation in future harmonised standards/ETSI standards.

Best regards,

A handwritten signature in black ink, appearing to read "Chris Woolford", with a long horizontal flourish underneath.

Chris Woolford

ECC chair

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