
LIAISON STATEMENT

Title: LS to GSMA on ECC request for standardisation support related to ECC Decision (22)07 on “harmonised framework on aerial UE usage in MFCN harmonised bands”

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Response to: -

1. Overall description

ETSI TC MSG/ERM TFES would like to inform GSMA that TFES has received an LS from ECC in TFES(23)7400014 (attached), which is a request for standardisation support on implementation in harmonised standard of relevant components of ECC Decision (22)07 on “harmonised framework on aerial UE usage in MFCN harmonised bands”.

ECC adopted harmonised operational and technical conditions for usage of aerial UE in MFCN harmonised bands as ECC Decision (22)07. 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.

Based on the ECC Decision (22)07, ECC invites ETSI to include the following requirements in future ETSI harmonised standard on aerial UE to ensure a coherence with this ECC framework:

- a) 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.
- b) 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
- c) differentiation of aerial UE from other terrestrial UE shall not be changed by the end-user
- d) the aerial UE shall not be capable to connect to LTE/NR 5G networks without aerial subscription

TFES is responsible for implementing the harmonised standard for IMT devices and will conduct this work. TFES has discussed LS from the ECC during the TFES#74 meeting and has started collecting the relevant information available to optimize the effort and identify any technical gaps.

TFES believes that the last bullet d) of the request can be related to the GSMA work. For this reason, TFES would like to have any information on how to enable a specific aerial subscription to connect to LTE/NR 5G networks.

For the other requests from the ECC, the TFES is planning to handle them as follows:

- The requirement in bullet a), TFES plans to implement the out-of-band emission limits applicable to aerial UEs, which differs from the OOB limits applicable to terrestrial UEs in the frequency bands 1710-1785 MHz, 2500-2570 MHz, 2570-2620 MHz, as defined by ECC Decision 22(07).
- The requirement in bullets b) to d), TFES does not have experience with these types of requirements and would like to ask 3GPP TSG RAN, 3GPP TSG SA to provide status of related standardisation work.

Please note, that according to the LS received in TFES(23)7400014 (dated November 2022), the ECC expects that Harmonized Standards containing implementation of the above aerial UE requirements in bullets (a to d) would need to be developed and published within the next 12-18 months in order to support the development of this usage with confidence of all spectrum users.

TFES will evaluate the responses at the next TFES#75 meeting in March 2023 and then share with ECC the plan adding the requested requirements in existing or new Harmonized Standard(s).

Therefore, TFES looks forward to further cooperation with GSMA and all its relevant working groups on this matter and welcomes any update/further information on these requirements from 3GPP.

Best regards,

Dominique Everaere
ETSI MSG TFES Chair

2. Actions

To GSMA

ACTION: ETSI TC MSG/TFES respectfully asks GSMA to consider the above information, and to provide status of related standardization work.

3. References

TFES(23)7400014	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",
ECC Decision (22)07	Harmonised technical conditions for the usage of aerial UE for communications based on LTE and 5G NR in the bands 703-733 MHz, 832-862 MHz, 880-915 MHz, 1710-1785 MHz, 1920-1980 MHz, 2500-2570 MHz and 2570-2620 MHz harmonised for MFCN

4. Dates of next meetings

MSGTFES#75	20-21 March 2023, Munich, Germany
MSGTFES#76	26-27 June 2023, Kista, Sweden