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TECHNICAL REPORT

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Guidelines for extraterritorial 5G Systems (5GS)
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1 Scope

The present document identifies use cases and associated guidelines for the provision of services when a 5G public network has an extraterritoriality access component.

This Technical Report (TR) addresses:

- Use cases and associated conditions generating extraterritoriality of public 5G systems (e.g. HAPS covering multiple countries, satellite access covering international waters, aeronautical networks),
- 3GPP features (e.g. emergency calls, PWS, LI, charging) and technical aspects (e.g. MCC/MNC, location of UE/NW) for which extraterritoriality may be relevant, and types of regulations that may be applicable.
- Guidelines on the fulfilment of relevant regulatory requirements (e.g. routing to a core network in a specific country, use of MCC).

This 900 series TR is meant to serve as the basis for technical work in other 3GPP Working Groups when considering the above topics. This TR is not normative. It has been developed by SA1 to capture relevant high-level considerations associated with of the provision of 5G public network and access services in extraterritorial contexts, and provide corresponding guidelines.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

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- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 22.011: Service accessibility

[3] https://www.un.org/depts/los/convention_agreements/texts/unclos/part7.htm

[4] 3GPP TS 22.268: "Public Warning System (PWS) requirements"

[5] 3GPP TS 22.101: Service aspects; Service principles

[6] Global Maritime Distress and Safety System Manual, 2015 Edition, UN IMO, ISBN 978-92-801-1624-3.

[7] SOLAS Consolidated Edition, 2020, UN IMO, ISBN 978-92-801-1690-8.

[8] 3GPP TS 33.126: "Lawful interception requirements"

[9] Data Protection & Privacy Laws, https://unctad.org/page/data-protection-and-privacy-legislation-worldwide, Accessed: 19.10.20.

[10] ITU RADIO REGULATORY FRAMEWORK FOR SPACE SERVICES; https://www.itu.int/en/ITU-R/space/snl/Documents/ITU-Space_reg.pdf

[11] UN Convention No. 10106 , "Convention on Offences and Certain Other Acts Committed on Board Aircraft", Tokyo, 14 September 1963, <https://treaties.un.org/doc/db/Terrorism/Conv1-english.pdf> Accessed 11.02.21.

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