**3GPP TSG-SA WG1 Meeting #92e S1-204224**

**Electronic Meeting, 24 - 28 Aug 2020** *(revision of S1-20xxxx)*

Title: FS\_GET Feature affected by Extraterritoriality – Emergency calls

Agenda Item: 7.5.1

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*Abstract: This contribution proposes a section on emergency calls for the FS\_GET TR 22.926.*

===================Proposed Change==========================

# 2 References

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

- 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

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

 [x] <doctype> <#>[ ([up to and including]{yyyy[-mm]|V<a[.b[.c]]>}[onwards])]: "<Title>".

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

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

===================Proposed Change==========================

## 6.x Emergency calls

Requirements for emergency calls are listed in [x].

Different countries and regions can have different types of emergency calls. Furthermore, similar types of emergency calls may use different numbers in different countries. [x] provides the following examples:

19 Police (Albania)

100 Police and Fire Brigade (Greek cities)

100 Ambulance and Fire Brigade (Belgium)

112 Police and Ambulance (Italy)

112 General emergency call, all categories (Sweden)

115 Fire Brigade (Italy)

144 Ambulance (Austria)

An issue with extra-territoriality may therefore be that it is not clear which emergency call numbers need to be supported. Fortunately, the UE will be able to recognize many of the emergency call numbers and translate a call to an emergency number to an emergency number request. That way on most phones you can either use 911 or 112 to make an emergency call, irrespective of where you are. Note that this is not the case for all emergency call numbers. A non-terrestrial network operators will have to take the location of the UE into account to determine which emergency call numbers apply for which purposes in case the UE has not recognised the emergency call number as a general emergency call.

One of the main aspects related to extra-territoriality is that emergency calls need to be routed to the correct Public Safety Answering Point (PSAP). Routing to the right PSAP may be done based on the basis of UE determined location; it is assumed it is in the best interest also of the UE owner to route to the right PSAP.

A specific issue is to determine what kind of emergency call support should be provided in extra-territorial areas (e.g. at sea outside territorial waters). Users may expect support for emergency calls in areas where there is no clear PSAP that would be able to organise an emergency response. For maritime users the GMDSS (Gross Maritime Distress Safety System) [y] in the context of SOLAS (Saving of Lives at Sea) [z] provides a communication system for emergency response. Satellite operators may provide both GMDSS and/or terrestrial emergency calls. Note that SOLAS regulations impose requirements on maritime users but does not impose regulatory requirements on satellite operators to provide GMDSS and/or emergency calls.