**3GPP TSG-CT WG1 Meeting #130-eC1-213896**

**Electronic meeting; 20-28 May 2021 Revision of C1-213092**

**Source: China Mobile**

**Title: Conclusion for KI#7**

**Spec: 3GPP TR 24.821 v1.1.0**

**Agenda item: 17.2.4**

**Document for: Agreement**

**1. Introduction**

In TR 24.821, Key issue #7 focuses on PLMN selection for emergency call.

This pCR proposes a conclusion for this key issue.

**2. Reason for Change**

For KI#7, solution#16 and #18 provided in the TR 24.821 and in CT1#129e, C1-212553 provided the evalutions of these two solutions.

This pCR provides a conclusion to KI#7 based on the evalutions done and agreed at CT1#129e.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TR 24.821 v1.1.0.

\* \* \* First Change \* \* \* \*

# 8 Conclusion

## 8.x Conclusion for Key Issue #7

Key issue #7 " Emergency calls " identifies the following issue in subclause 5.7:

- What modifications in automatic PLMN selection mode are necessary for a UE using satellite access unable to obtain normal service from a PLMN?For this Key issue, SA1 provides a guidance by SA1 LS reply (S1-211319): “The UE should first determine a most suitable PLMN based on its own physical location determination.As there may be border cases where the UE cannot determine sufficiently accurate or sufficiently precise in which country it is, the UE may also still attempt to obtain (emergency) services from a PLMN that according to the UE is not allowed to operate in the country of the UE’s location. If the PLMN indicates it is not allowed to operate in the country of the UE’s location, the UE should not (re)-attempt emergency calls.”

In normative phase, the above requirements should be considered in 3GPP TS 23.122 [3].

There are four situations in which the MS using satellite access is unable to obtain normal service from a PLMN mentioned in the evaluations of the solution to KI#7:

- a)the MS is unable to find a suitable cell to camp on;

- b)the USIM is not inserted;

- c)the ME receives a REGISTRATION REJECT with the cause "PLMN not allowed to operate at the present UE location";

- d) the ME receives a REGISTRATION REJECT with a cause other than "PLMN not allowed to operate at the present UE location".

Based on SA1 requirement,

- For c), if a PLMN has indicated to the UE that it is not allowed to operate in the country of the UE's location, then this is also an indication that the PLMN is unable to provide support the various requirements related to emergency services, notably routing to a suitable PSAP, the UE shall not (re-)attempt emergency calls in the PLMN.

- For a)b)d), the UE should first determine a most suitable PLMN based on its own physical location determination. As there may be border cases where the UE cannot determine sufficiently accurate or sufficiently precise in which country it is, the UE may also still attempt to obtain (emergency) services from a PLMN that according to the UE is not allowed to operate in the country of the UE's location.

\* \* \* Next Change \* \* \* \*