**3GPP TSG-CT WG1 Meeting #129-eC1-21xxxx**

**Electronic meeting; 19–23 April 2021 Revision of C1-212059**

**Source: China Mobile**

**Title: Evaluation of Solutions for KI#7**

**Spec: 3GPP TR 24.821 v1.0.0**

**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 provides an evaluation of the above solutions for this key issue.

**2. Reason for Change**

An evaluation of solutions for KI#7 is provided.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TR 24.821 v1.0.0.

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

## 7.7 Evaluation of Solutions 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?

There are two candidate solutions for this key issue. The evalution of these solutions is as follows.

Table 7.7-1  Evaluation of the solutions to KI#7

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|  | Solution Summary | Evaluation |
| Solution  16 | When a UE needs to camp on an acceptable cell with "satellite NG-RAN" access technology, it checks whether a candidate cell belongs to a PLMN allowed in the country where the UE is physically located, according to the solution to Key Issues #1 and #2. | Both solutions cover the UE behavior of camping on an acceptable cell with the consideration of the PLMN ID, according to the solution to KI#1 and KI#2. They are compatible in the situations the UE is unable to find a suitable cell to camp on or receiving a REGISTRATION REJECT with the cause "PLMN not allowed to operate at the present UE location".  The two solutions are not compatible in the following situations:  - USIM not inserted;  - Receiving a REGISTRATION REJECT with a cause other than "PLMN not allowed to operate at the present UE location". |
| Solution  18 | When a UE needs to camp on an acceptable cell with "satellite NG-RAN" access technology, it distinguishes the situations:  - When unable to find a suitable cell to camp on or receiving a REGISTRATION REJECT with the cause "PLMN not allowed to operate at the present UE location", it may camp on an acceptable cell according to the solution to Key Issues #1 and #2;  - When receiving a REGISTRATION REJECT with a cause other than "PLMN not allowed to operate at the present UE location", it may camp on an acceptable cell of the selected PLMN;  - When the USIM is not inserted, it may camp on an acceptable cell irrespective of the PLMN identity, without modifying the behaviour. |

Questions for discussion:

1. Should the UE with USIM not inserted behave(i.e. select a PLMN to camp on in the limited state) the same as the UE with USIM inserted when camping on an acceptable cell with "satellite NG-RAN" access technology?
2. Can a PLMN send a reject message before checking UE’s location?

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