**3GPP TSG-CT WG1 Meeting #137-eC1-225154**

**E-Meeting, 18th – 26th August 2022**

Title: Reply to LS on Satellite E-UTRAN on PLMN selector with Access Technology

Response to: LS (C1-224516/ C6-220305) LS on Satellite E-UTRAN on PLMN selector with Access Technology

Release: Rel-17

Work Item: IoT\_SAT\_ARCH\_EPS, 5GSAT\_ARCH-CT

Source: CT1

To: CT6

Cc: SA1

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

Attachments:

**1. Overall Description:**

3GPP CT1 would like to thank CT6 about LS on Satellite E-UTRAN on PLMN selector with Access Technology. In the LS, CT6 asked CT1 to note the CR and to provide feedback, if any.

CT1#137e has reviewed the attached CR#0956 rev2 for 31.102, which takes bit3 of Access Technology Identifier “Satellite access”, has concerns on the solution and is willing to provide feedback to CT6 as below.

Potential issue#1 (backward compatibility issues):

Firstly, with the current coding in TS 31.102 v.17.6.0, Rel-15 or Rel-16 UE supporting E-UTRAN will interpret “satellite E-UTRAN” as E-UTRAN and Rel-15 or Rel-16 UE supporting NG-RAN will interpret “satellite NG-RAN” as NG-RAN due to ignoring the bit #3 (reserved for future use in Rel-15 and -16).

Secondly, until TS 31.102 v.17.5.0, the bit #3 of the Access Technology Identifier was reserved for “satellite NG-RAN”, in v.17.6.0 the bit indicates “satellite”, so Rel-17 UEs supporting satellite NG-RAN and implementing v.17.5.0 will misinterpret the bit. These backward compatibility issues should be re-considered in CT6.

Potential issue#2 (23.122 requirement):

TS 23.122 sc. 4.4.3 specifies “*If an entry indicates more than one access technology, then no priority is defined for the access technologies within this entry and the priority applied to each access technology within this entry is an implementation issue.*”. An operator may want to use this configuration option to configure NG-RAN and satellite NG-RAN within the same entry allowing the UE to decide implementation-specific the mutual priority order of the access technologies within the entry. With the new coding it’s not possible to indicate a satellite access and a non-satellite access e.g., for NG-RAN in one entry at the same time. Therefore, to fulfil this 23.122 requirement, coding of one bit per access technology would be needed in EFPLMNwAcT.

**2. Actions:**

**To CT6 group.**

**ACTION:** CT1 kindly asks CT6 to consider the potential issues addressed above and to re-consider of modifying the coding of Access Technology Identifier in EFPLMNwAcT such that one bit indicates only one access technology.

**3. Date of Next CT1 Meetings:**

CT1#138e 10th - 14th October 2022 e-meeting

CT1#139 14th – 18th November f2f, location TBD