**3GPP TSG-CT WG4 Meeting #111-eC4-224401**

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

Title: Reply to LS on VoLTE Roaming GBR Handling

Response to: (S2-2204724 / C4-224024) LS on VoLTE Roaming GBR Handling

Release: Rel-17

Work Item: TEI17

Source: CT4

To: SA2

Cc: SA4, CT3, GSMA NRG

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Attachments:

**1. Overall Description:**

CT4 would like to thank SA2 for their LS on VoLTE Roaming GBR Handling.

3GPP TS 29.274 (GTPv2) already supports that the MME in a VPLMN can reject Create/Update Bearer Request with the cause "MME/SGSN refuses due to VPLMN Policy" as below:

"MME/SGSN refuses due to VPLMN policy" is used by the MME/SGSN in the VPLMN to indicate to the PGW in the Create Bearer Response or Update Bearer Response that it does not allow the establishment or modification of the bearer due to VPLMN operator's policy.

In principle, CT4 could extend the Create/Update Bearer Response with a new VPLMN QoS IE providing the max GBR that the VPLMN allows when returning the above error.

A better alternative could be to extend the Create Session Request message for an IMS PDN connection creation with a new VPLMN QoS IE containing a list of max GBRs for corresponding QCIs which is like what exists in 5GS (v-SMF providing its QoS constraints to H-SMF during the PDU session establishment).

However, above alternatives have impact on all concerning GTP-C entities in both VPLMN and HPLMN, i.e. MMEs/SGWs/PGWs have to be upgraded to be able to handle the new VPLMN QoS IE.

**2. Actions:**

**To SA2**

**ACTION:** CT4 kindly requests SA2 to take the above information into consideration

**3. Date of Next TSG CT WG4 Meetings:**

3GPP TSG CT4#112e 10/2022 E-Meeting