**3GPP TSG-SA5 Meeting #141-e *S5-221094rev1***

**e-meeting, 17th – 26th January 2021**

**Title:** LS on Enhancement on Charging Identifier Uniqueness Mechanism

**Response to:** -

**Release:** Rel-16/Rel-17

**Work Item:** Charging Maintenance and Rel-16 small Enhancements

**Source:** SA5

**To:** CT4

**Cc:** CT3

**Contact person:** Chen Shan

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

**Attachments:** None

# 1 Overall description

As per the description in the clause 5.1.4 of TS 32.255, the charging identifier is created to allow correlation of charging information, which is generated at the first SMF and shall be unique within the SMF which assigned it and is then used in all subsequent messages for that PDU session. In the clause 6.1.6.1 of TS 32.291, the definition of charging id re-uses the data types of “unit32” specified in the TS 29.571 [371].

In the case of home routed roaming (intra-PLMN V-SMF change) case, the first SMF (V-SMF) generates the charging ID, and then transfers from the old V-SMF (first SMF) to the new V-SMF, the charging id may be not unique in the new V-SMF.

In order to make sure the charging identifier uniqueness in the following cases:

- roaming scenario for 5G Data Connectivity;

- Access network Charging Identifier

- IMS Charging Identifier (included in all SIP methods).

SA5 group agree that to add a new data type of “string” for charging id to make the charging identifier uniqueness and alignment.

# 2 Actions

**To CT4**

**ACTION:** SA5 kindly asks CT4 to take the above information into account for charging id.

# 3 Dates of next TSG SA WG 5 meetings

SA5#142e 04 - 12 April 2022 Electronic meeting

SA5#143e 09 - 17 May 2022 Electronic meeting