**3GPP TSG-CT WG3 Meeting #112eC3-205448**

**E-Meeting, 04th – 13th November 2020**

**Title: LS on the input parameters of the LCS subscription request from an AF via NEF**

**Response to: -**

**Release: Rel-16**

**Work Item: 5G\_eLCS**

**Source: CT3**

**To: SA2**

**Cc: CT4**

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**Attachments:** N/A

# 1 Overall description

CT3 has observed that the inclusion of the parameters "External Client Type" and "LCS Service Type" as input parameters to be provided by the AF to the NEF when creating a LCS monitoring event subscription is not clear enough in the current Stage 2 specifications.

Indeed, step 1 of clause 6.1.2 of 3GPP TS 23.273 (cf. extract below) states that the "LCS Service Type" should be part of the parameters provided by the AF to the GMLC via the NEF, when sending a location monitoring event subscription.

*1. The LCS Client or the AF (via NEF) sends a request to the (H)GMLC for a location and optionally a velocity for the target UE which may be identified by an GPSI or an SUPI. The request may include the required QoS, supported GAD shapes, LCS client type, LCS service type (see TS 22.071 [2]) and other attributes. (H)GMLC (for 1a) or NEF (for 1b) authorizes the LCS Client or the AF for the usage of the LCS service. If the authorization fails, step 2-23 are skipped and (H)GMLC (for 1a) or NEF (for 1b) responds to the LCS Client or the AF the failure of the service authorization in step 24. In some cases, the (H)GMLC derives the GPSI or SUPI of the target UE and possibly the QoS from either subscription data or other data supplied by the LCS Client or AF.*

At the same time, this parameter is not listed in clause 5.5 of 3GPP TS 23.273, which normally lists all the input parameters that can be provided by an AF or an LCS client. The "External Client Type" parameter is also not present. In addition, Table 7.2.1-1 in clause 7.2.1 indicates that both the "LCS Service Type" and the "External Client Type" should be stored in the GMLC for an External LCS Client.

In addition, 3GPP TS 29.515 (i.e. Ngmlc API), under the remit of CT4, defines these parameters as possible input parameters to be provided by the NEF to the GMLC (as per Table 6.1.5.2.2-1 of 3GPP TS 29.515) as part of the Ngmlc\_Location\_ProvideLocation service operation. The "External Client Type" is even defined as a mandatory input parameter. In the meantime 3GPP TS 29.122, under the remit of CT3, currently does not define these parameters as possible input parameters to be provided by the AF when creating an LCS monitoring event subscription (as per Table 5.3.2.1.2-1 of 3GPP TS 29.122), which is a clear misalignment.

Therefore, CT3 has the following questions:

**Q1**: Should these parameters, i.e. "LCS Service Type" and the "External Client Type", be provided by an AF to the NEF when creating an LCS monitoring event subscription? This would enable the NEF to provide them to the GMLC in the Ngmlc\_Location\_ProvideLocation request.

**Q2**: If the answer to the Q1 is yes, what is the behaviour of the NEF and GMLC when receiving these parameters? What are the checks, if any, that need to be performed?

**Q3**: If the answer to Q1 is no, then how these parameters are derived by the NEF? Should these parameters only be stored and derived by the GMLC? In this case, this would mean that these parameters should be removed from the list of possible input parameters to be provided by the NEF in the Ngmlc\_Location\_ProvideLocation request.

# 2 Actions

**To SA2**

**ACTION:** CT3 kindly asks SA2 to provide answers and clarifications on the above questions and update the related Stage 2 specifications accordingly, if necessary.

# 3 Dates of next TSG CT WG 3 meetings

3GPP TSG CT3#113e 25th -29th January 2021 E-Meeting

3GPP TSG CT3#114e 24th February –5th March 2021 E-Meeting