**3GPP TSG-SA WG3 Meeting #116 *S3*-242254-r5**

**Jeju, Korea 20 - 24 May 2024**

**Title: Reply LS on LI considerations for TR 33.757**

**Response to: S3i-240294 LS on LI considerations for TR 33.757**

**Release: Rel-19**

**Work Item: LI19**

**Source: China Mobile (to be 3GPP SA3)**

**To: SA3-LI**

**Cc: SA2**

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**1. Overall Description:**

SA3 would like to thank SA3-LI for the LS on LI considerations for TR 33.757.

Key Issue #1 - "Security for dedicated UPF interacting with PLMN through N4 interface"

Regarding Key Issue #1, please kindly be aware that this key issue is still in study phase and therefore LI requirements can be considered. SA3 thanks SA3-LI for informing that PLMN and PNI-NPN may have obligations to trigger interception across the domain boundary in certain architecture options.

In scenarios where an SMF within the hosting PLMN’s domain is controlling a UPF in the PNI-NPN domain via N4, SA3 would like to inform SA3-LI that solutions may require the SMF to select and establish communications with the UPF via proxies or gateways which perform intermediate topology translations and/or access control policy enforcement.

SA3 would like to ask SA3-LI if there are any specific LI issues that would prevent adoption of any of the following proxy/gateway architectures:

1. Proxy/gateway located only in the PLMN operational domain,

2. Proxy/gateway located only in the PNI-NPN operational domain,

3. Proxy/gateway located in both the PLMN domain and in the PNI-NPN operational domain.

Key Issue #3, SUPI privacy in a PLMN-hosted NPN

Regarding Key Issue #3, SA3 is aware of the following identification requirements from LI TS 33.126. Further according to TS 23.501 Clause 6.2.7, ‘*The Unified Data Management (UDM) includes support for the following functionality:* …*Lawful Intercept Functionality (especially in outbound roaming case where UDM is the only point of contact for LI)*’.

* *R6.2 – 10 User Identification - The CSP shall maintain and be able to report (as required) an association among subscription identifiers or MEs or UEs registered on the network, using private or public, long term or short term available identifiers (e.g. SUPI, GUTI, SUCI, MSISDN, IMEI, SIP-URI, IMSI, TEL-URI), such that LI can be performed at any time the target interacts with, or acts within, the CSP network, or the CSP network acts on behalf of the user. This requirement shall not be interpreted to conflict with regulations pertaining to unauthenticated emergency calls.*
* *R6.2 – 60 Long Term Identifiers - The CSP shall be able to intercept based on long term identifiers.*
* *R6.2 – 70 Short Term Identifiers - The CSP shall be able to intercept based on valid short-term identifiers.*
* *R6.2 – 80 Private Identifiers - The CSP shall be able to intercept based on private identifiers.*
* *R6.2 – 90 Public Identifiers - The CSP shall be able to intercept based on valid public identifiers.*

SA3 will take all the above information into account for further steps of KI#3 to ensure LI compliance for PNINPN scenario.

**2. Actions:**

**To SA3-LI group.**

**ACTION:**

Please take the above information into account and provide us the requested information.

**3. Date of Next SA3 Meetings:**

SA3#117 19 - 23 August 2024 Maastricht (Netherlands)

SA3#118 14 - 18 October 2024 TBD (India)