**3GPP TSG-SA WG3 Meeting #116 *S3*-242254-r3**

**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 requirements from LI, such as requirement R6.2-10 in TS 33.126 which requires that networks shall be able to support identification and interception of traffic by long-term identifiers including SUPI. SA3 agrees the solutions that require SUPI privacy in a PNI-NPN are dependent on LI/regulatory obligations in the NPN deployment areas.

**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)