**3GPP TSG-SA3 Meeting #116 *Draft\_S3-242366r1***

Jeju, South Korea, 20th - 24th May 2024 revision of S3-242351,S3-242124,S3-242002

**Title: Draft\_LS reply on differentiating security materials used for PC5 direct discovery for 5G ProSe UE-to-network relay**

**Response to: LS C1-242665 on differentiating security materials used for PC5 direct discovery for 5G ProSe UE-to-network relay from CT1**

**Release: Rel-17**

**Work Item: 5G\_ProSe**

**Source: SA3**

**To: CT1**

**Cc:**

**Contact person: Jing Ping**

**jing.ping@nokia-sbell.com**

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

**Attachments:** N/A

# 1 Overall description

SA3 would like to thank CT1 for the LS on differentiating security materials used for PC5 direct discovery for 5G ProSe UE-to-network relay. SA3 discussed the questions from CT1 and answers the questions as follows:

1- Whether the HPLMN ID can be scrambled or not in the PC5 direct discovery message.

Answer: As an optimization of message processing in the receiving UE, the HPLMN ID is not to be scrambled in the PC5 direct discovery message.

2- If HPLMN ID is not to be scrambled in the PC5 direct discovery message, then if there are any updates needed in B) above to achieve that.

Answer: Yes, scrambling mechanism in B) need to be updated to allow clear text HPLMN ID in PC5 direct discovery message.

3- Since the HPLMN ID is not to be encrypted in the PC5 direct discovery message, how this can be achieved given A) above.

Answer: Both Scrambling and Message-specific confidentiality mechanism need to be updated to allow clear text HPLMN ID in PC5 direct discovery message.

4- CT1 is currently discussing different alternatives related to at which position inside the PC5 direct discovery signalling message (*Tables 10.2.1.8, 10.2.1.10 and 10.2.1.11 of TS 24.554*) the HPLMN ID information element (IE) is to be included. CT1 would like to ask whether SA3 has any preference where in the PC5 direct discovery signalling message the HPLMN ID IE is to be included.

Answer: SA3 would like to let CT1 to decide where in the PC5 direct discovery signalling message the HPLMN ID IE is to be included.

# 2 Actions

**To CT1**

**ACTION:** SA3 would like to respectfully ask CT1 to take above information into account, and update the specification accordingly.

# 3 Dates of next TSG SA WG 3 meetings

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

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