**3GPP TSG-SA3 Meeting #117 S3-24ltm4**

Maastricht, Netherlands, 19 - 23 August 2024

**Title: Reply LS on Security Handling for inter-CU LTM in non-DC cases**

**Response to: LS R2-2404037 on security handling for inter-CU LTM in non-DC cases from RAN2**

**Release: Rel-19**

**Work Item: NR\_Mob\_Ph4-Core**

**Source: SA3**

**To: RAN WG2**

**Cc: RAN WG3**

**Contact person: Stawros Orkopoulos**

**stawros dot orkopoulos at nokia dot com**

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

**Attachments:** N/A

# 1 Overall description

SA3 thanks RAN2 for their LS R2-2404037 on security handling for inter-CU LTM in non-DC cases.

SA3 has discussed the proposed options and would like to respond to the following questions:

1. RAN2 asks SA3 to consider the needed signalling between participating network nodes for each option and inform RAN2 if any of the above options is not feasible or not acceptable from security perspective and provide modifications that could make that options feasible and acceptable.
2. RAN2 requests SA3 whether, for each option, the change of security algorithm or the change of key set indicator is to be supported for inter-CU LTM.

SA3 Response to Question 1:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Option 1A** | **Option 1B** | **Option 2A** | **Option 2B** | **Option 3A** | **Option 3B** | **Option 4** |
| Feasible | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Acceptable | No(NOTE1) | No(NOTE1) | Yes | Yes | Yes | Yes | Yes |

NOTE 1: Not acceptable, because of a missing MAC CE protection.

SA3 Response to Question 2:

The change of security algorithm or the change of key set indicator (KSI) can be supported for every of the options.

# 2 Actions

**To RAN WG2**

**ACTION:** SA3 kindly asks 3GPP RAN2 to take the above information into consideration.

# 3 Dates of next TSG SA WG 3 meetings

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

SA3#119 11 - 15 November 2024 Orlando (US)