**3GPP TSG-RAN3 Meeting #127 R3-25xxxx**

**Athens, Greece, Feb 17-21, 2025**

**Title: [DRAFT] Reply LS on OAM requirements to support regenerative payload transport links**

**Response to: S2-2413030/R3-250023 and S5-247311/R3-250030**

**Release: Rel-19**

**Work Item: NR\_NTN\_Ph3-Core**

**Source: RAN3**

**To: SA2, SA5**

**Cc:**

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

**Attachments:**

**1. Overall Description:**

RAN3 thanks SA2 and SA5 for the reply LS on OAM requirements to support regenerative.

We see SA2 has a few concerns on the OAM based solution from the LS as below:

* SA2 discussed whether the OAM solution would have impacts to the existing procedures related to paging and sequencing of OAM updates and RAN3 updates towards the AMF, e.g. in NGAP Setup/configuration update etc. However, it was unclear to SA2 how the OAM solution would work based on the description in the incoming LS to be able to determine whether there are impacts.

- The frequency of updates by OAM was not clear to SA2 and whether the information provided to the AMF is a timetable of which TAIs the gNB will support at what time, or whether the updates are provided frequently as the satellite moves updating the AMF each time a change occurs.

RAN3 discussed and would like to provide the following clarification:

* In general, satellite orbital movement is periodic and predictable; therefore, any resulting change to node parameters will result in the same information being exchanged over network interfaces at regular intervals. OAM configuration avoids the need for periodic RAN/AMF Configuration Update procedures in this scenario, as an optimization. OAM can configure AMF and RAN to assist, if TA list will be provided by OAM or via signalling. If both OAM and NG signalling procedures for TA update co-exist then NG signalling procedure takes precedence over the OAM configuration of TA.
* With respect to the frequency of updates by OAM, RAN3 assumes that timetable based static configuration could be provided by OAM to AMF as initial configuration when the system comes up. The detail design of timetable based static configuration is up to SA5.

**2. Actions:**

**To SA2 and SA5group:**

**ACTION:** RAN3 kindly asks SA2 and SA5 to take the above information into account.

**3. Date of Next TSG-RAN3 Meetings:**

TSG-RAN3 Meeting #127bis 07-11 Apr 2024 Wuhan , CN

TSG-RAN3 Meeting #128 19-23 May 2025 Malta , MT