**3GPP TSG-WG SA2 Meeting #160 *S2-2313483***

**Chicago, USA, Nov 13 – 17, 2023 (revision of S2-2312788)**

Title: [DRAFT] Reply LS on misalignment between PTW and Coverage Window

Response to: LS (S2-2311936/R2-2309283) on misalignment between PTW and Coverage Window from RAN2

Release: Release 18

Work Item: IoT\_NTN\_enh-Core

Source: [Huawei to be] SA2

To: RAN2

Cc: -

**Contact Person:**

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

Attachments:

**1. Overall Description:**

SA2 thanks RAN2 for the LS (R2-2309283/S2-2311936) on misalignment between PTW and Coverage Window and would like the provide the answers as following.

1. *Whether the issue of misalignment between PTW and Coverage Window is valid from SA2’s point of view?*

Answer 1: From SA2 perspective, the misalignment between PTW and Coverage Window is not a valid issue. This can be avoided via the network implementation.

As agreed in Rel-17 IoT NTN, the UE may disable the AS layer functions when it is out of the satellite network coverage and the Core Network just makes sure that at least one eDRX cycle can be covered by the Coverage Window.

In Rel-18 TS 23.401 clause 4.13.8.2 also includes: “MME stores the information that the UE is unavailable at the Start of Unavailability Period in the UE context, and considers the UE is unreachable from then until the UE enters ECM\_CONNECTED state”.

SA2 does not see the need for any further specification updates for this.

1. *If the answer to Q1) is yes, whether it can be solved by any method that SA2 has already specified or by network implementation, or there is need for further enhancement?*

Answer 2: As mentioned in the previous answer, the Core Network can allocate the eDRX parameters considering the Coverage Window to make sure the UE can be paged within the Coverage Window.

**2. Actions:**

**To RAN2 group.**

**ACTION:** SA2 asks RAN2 group to take the above into account and provide feedback if any.

**3. Date of Next TSG SA WG2 Meetings:**

TSG-SA2 Meeting #160-Ad Hoc-e 22nd – 29th January, 2024 Online

TSG-SA2 Meeting #161 26th February – 1st March, 2024 Athens, GR