**3GPP TSG-RAN WG3 Meeting #120R3-23xxxx**

**May 22 – 26, 2023**

**Title:** LS on inter-RAT SHR and SPR

**Release:** Rel-18

**Work Item:** NR\_ENDC\_SON\_MDT\_enh2-Core

**Source:** RAN3

**To:** RAN2

**Cc:** -

**Contact Person:**

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**Attachments:** -

**1. Overall description:**

RAN3 discussed how to retrieve the UE context in the source node to support Successful Handover Report (SHR) and Successful PSCell Report (SPR). RAN3 aims at a common solution for scenarios where configuration used for the UE needs to be retrieved from Rel-18. RAN3 see the benefits to use Mobility Information in order not to mandate the source node to save the UE context 48hr after successful HO. The solution based on the Mobility Information works as follow:

* The source node decides the Mobility Information. The source RAN node provides it in order to enable later analysis of the conditions that led to SHR or SPR. 32bit Mobility Information is defined in XnAP (i.e. TS38.423).
* Mobility Information is sent to the UE together with the SHR configuration, the UE includes the Mobility Information back in the inter-RAT SHR;

If the network does not provide the Mobility Information, RAN3 see the benefits to report the source C-RNTI and timer from Handover Command to SHR retrieval.

RAN3 has the following questions to RAN2 on the Mobility Information:

* Whether there is any issue to include Mobility Information in the RRC Reconfiguration message with sync containing Handover Command?
* Whether the size is problematic?

Furthermore, RAN3 agreed that the following information are needed from the SPR to assist the forwarding of SPR over network interfaces:

* CGI of the PCell which sent the SPR configuration;
* Indication whether the PSCell change was MN-initiated or SN-initiated. Explicit or implicit can be decided by RAN2. It is RAN3 understanding that the UE can know whether the PSCell change was MN-initiated or SN-initiated based on the current RRC signaling design.

RAN3 kindly asks RAN2 to confirm the RAN2 understanding and update their specification if feasible.

2. Actions:

RAN3 respectfully asks RAN2 to take the above information into account, provide the feedback and update their specification as needed.

**3. Date of next TSG RAN WG3 meetings:**

RAN3#121 21th - 25th Aug. 2023 France