**3GPP SA WG2 Meeting #S2-162 S2-2404729**

**15 - 19 Apr, 2024 Changsha, CN**

Title: [Draft] LS on Support of UE move between CAG cell of 5G Femto and CSG cell

Response to:

Release: Rel-19

Work Item: FS\_5G\_Femto, FS\_WAB\_5GFemto\_NR

Source: SA2

To: RAN3

Cc: RAN2

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Attachments: TR 23.700-45

**1. Overall Description:**

As part of the FS\_5G\_Femto study ([SP-231797](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_102_Edinburgh_2023-12/Docs/SP-231797.zip)), the following aspects will be studied:

* **WT#1:** Based on RAN3 outcome, enhance the overall architecture and enable the required functional and procedural changes for supporting 5G NR Femto deployment.
* **WT#2:** How to enable interworking between CAG and CSG cells.

In TR 23.700-45, the WT#2 (mapped to KI#1 in the TR) investigates the support of the UE moving between CAG cell of 5G Femto and CSG cell, with no impact on the RAN. Therefore, some companies proposed below solutions for this KI:

* The UE partitions CSG-CAG ID and constructs mapped CSG/CAG ID (depending on the considered mobility direction) as described in solution#x.
* RAN recognizes the target CSG cell (or the target CAG cell) is as if an open cell during the handover (e.g., via local configuration) and the core network performs access control as described in solution#y.

**Question 1**: SA2 would like to understand whether the above two solutions works without impacting RAN mobility procedures (i.e., between CAG cell of 5G Femto and CSG cell)?

**Question 2**: SA2 has reserved the time units for the normative work of WT#1 based on the result of RAN3 work (RP-234041), which is expected to start in SA2 from SA2#164. Therefore, SA2 requests to confirm the conclusion of RAN3 on overall architecture, etc., which will be used as the basis for SA2's normative work.

**2. Actions:** SA2 asks RAN3 to answer the above questions.

**3. Date of Next SA2 Meetings:**

SA2#163 May 27 – 31, 2024 Jeju Island, KR

SA2#164 Aug 19 – 23, 2024 Maastricht, NL