**3GPP TSG-RAN WG2 Meeting #109 electronic R2-200XXX**

**24 February – 6 March 2020**

**Title:** LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs

**Response to:** -

**Release:** Release 16

**Work Item:** NG\_RAN\_PRN-Core

**Source:** TSG RAN WG2

**To:** CT1, SA1, SA2

**Cc:** RAN3

**Contact Person:**

#### Name: György Wolfner

E-mail Address: gyorgy(dot)Wolfner(at)nokia(dot)com

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

**Attachments:** -

**1. Overall Description:**

RAN2 understanding is that after manual CAG ID selection by UE NAS the UE AS shall select a cell that supports the manually selected CAG ID in order to perform the registration procedure triggered by UE NAS. RAN2 is seeking further guidance on the manual CAG ID selection issue. RAN2 has the following questions:

**Question 1.1 to SA2:** If a UE performs manual CAG selection and a successful registration, then whether the UE shall stay on cells supporting the manually selected CAG ID in RRC\_CONNECTED state especially in the case when after registration the Allowed CAG List in the UE does not contain the manually selected CAG ID?

**Question 1.2 to SA2:** Shall a UE prioritize for cell reselection the cells supporting the manually selected CAG ID over other suitable cells that do not support the manually selected CAG ID after a successful registration?

**Question 1.3 to CT1:** It is RAN2 understanding that the UE NAS provide the manually selected CAG ID to UE AS. Is the manually selected CAG ID provided as part of the allowed CAG list, or as a separate element?

Although at least one operator has indicated that UAC Parameters should also specify CAG ID, to date there is no agreement in RAN2 on the required granularity of UAC parameters broadcasted in a cell in case of PNI-NPNs with multiple CAG IDs for the same PLMN. More specifically whether it is sufficient to broadcast the Unified Access Control (UAC) parameters per PLMN or there is need to broadcast CAG ID specific configuration of UAC parameters. RAN2 observed that SA2 has specified in TS23.501 Section 5.30.3.4 that “In order to prevent access to NPNs for authorized UE(s) in case of network congestion/overload, existing mechanisms defined for Control Plane load control, congestion and overload control in clause 5.19 can be used, as well as the access control and barring functionality described in clause 5.2.5, or Unified Access Control using the access categories as defined in TS 24.501 [47] can be used”. RAN2 was not able to conclude whether this means that using the operator-defined access categories with access category criteria type set to the S-NSSAI used for PNI-NPN is sufficient to provide CAG specific access control.

**Question 2.1 to SA1:** Is there a requirement to enable PNI-NPN (CAG ID) specific access control in cells that are shared among PNI-NPNs belonging to the same PLMN?

**Question 2.2 to CT1, SA2:** If there is a requirement to enable PNI-NPN (CAG ID) specific access control in cells that are shared among PNI-NPNs belonging to the same PLMN, then is it sufficient to broadcast the Unified Access Control (UAC) parameters per PLMN (assuming that using the operator-defined access categories with access category criteria type set to the S-NSSAI used for PNI-NPN is sufficient to provide CAG specific UAC) or there is need to enable the broadcast of CAG ID specific configuration of UAC parameters?

**2. Actions:**

**To SA1, SA2, CT1 group.**

**ACTION:** RAN2 respectfully asks SA2, SA1 and CT1 to reply the above questions.

**3. Date of Next TSG-RAN WG2 Meetings:**

3GPP RAN2#109bis 20 – 24 April 2020 electronic

3GPP RAN2#110 25 – 30 May 2020 Athens, Greece