**3GPP TSG-RAN WG2 Meeting #109bis-eDraft\_R2-2004055**

**Online, 20th - 30th April 2020**

**Title:** [Draft] LS on security of PUR for the CP solution

**Response to:**

**Release:** Release 16

**Work Item:** NB\_IOTenh3-Core, LTE\_eMTC5-Core

**Source:** Huawei [to be RAN2]

**To:** SA3

**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:**

RAN2 has agreed to introduce transmission using PUR (Preconfigured Uplink Resource) for both Control Plane CIoT EPS/5GS optimisations and the User Plane CIoT EPS/5GS optimisations. Transmission using PUR allows one uplink transmission from RRC\_IDLE using a preconfigured uplink resource without performing the random access procedure.

The (ng-)eNB provides the configuration of the radio resources for transmission using PUR in *RRCConnectionRelease* message, the configuration is valid for one or multiple PUR occasions. For the User Plane CIoT EPS/5GS optimisations, the *RRCConnectionRelease* message is sent integrity protected and ciphered. However, for the Control Plane CIoT EPS/5GS optimisations, the *RRCConnectionRelease* message is sent without AS security.

RAN2 would like to ask SA3 whether they have any concern about providing the PUR configuration without AS security to UEs using the Control Plane CIoT EPS/5GS optimisations.

**2. Actions:**

**To SA3:**

RAN2 respectfully asks SA3 to take above information into consideration and provide feedback accordingly.

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

3GPP RAN2#110-e 01 - 12 Jun, 2020 Online

3GPP RAN2#111 24 - 28 Aug, 2020 Toulouse, France