3GPP TSG-RAN WG2 Meeting #119-e R2-22xxxxx

Online, 17-26 August 2022

Source: Huawei, HiSilicon

Title: Summary of [POST119-e][302][Sdata] UP open issues and CR to 38.321 (Huawei)

# Issues for the CR

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| **Company** | **Change1-17** | **Issue in the Change** | **Propose TP** |
| LG | Change5 | We think “if CG-SDT procedure is ongoing” and “if cg-SDT-TimeAlignmentTimer is running” are same conditions.  The proposed text may cause misunderstanding that there is a case when the CG-SDT procedure is ongoing but the cg-SDT-TimeAlignmentTimer is not running  [Nokia] Agree. | Remove one of “CG-SDT procedure is ongoing” or “cg-SDT-TimeAlignmentTimer is running”. We slightly prefer to remove the second one.  “If CG-SDT procedure is ongoing” is sufficient.  [Rapp] Corrected  [Langbo] We don’t think “if CG-SDT procedure is ongoing” and “if cg-SDT-TimeAlignmentTimer is running” are same conditions. If one of the two conditions has to been deleted, we suggest to retain “cg-SDT-TimeAlignmentTimer is running” in order to avoid the potential risks. One example is:  (1) cg-SDT-TimeAlignmentTimer expires (or not running) during the ongoing CG-SDT procedure; and then  (2) UE performs 2-step RA as specified in clause 5.2 of TS38.321 "The MAC entity shall not perform any uplink transmission except the Random Access Preamble and MSGA transmission when the cg-SDT-TimeAlignmentTimer is not running during the ongoing CG-SDT procedure......."; and then  (3) a PDCCH transmission is addressed to the C-RNTI and contains a UL grant for a new transmission is received by the UE; and then  (4) the UE considers this Random Access procedure successfully completed according to the updated version v01; and then  (5) hop to step (2) again due to the above mentioned specification in Clause 5.2 because cg-SDT-TimeAlignmentTimer is NOT started from step (1) to step (4).  In addition, for the case “when the CG-SDT procedure is ongoing but the cg-SDT-TimeAlignmentTimer is not running”, the UE may expect an Absolute Timing Advance Command MAC CE to complete the Random Access.  [Rapp] I still don't see a case where “CG-SDT procedure ongoing” cannot cover. |
| LG | Change6 | “triggered as in clause 5.27” is not needed.  [Nokia] Agree. | Remove “triggered as in clause 5.27”.  “If CG-SDT procedure is ongoing” is sufficient.  [Rapp] Corrected  [Langbo] Agree with the updated version v01. |
| LG | Change4 | Same text as in Chang5 and Change6 is preferred.  “if there is an on-going CG-SDT procedure as in clause 5.27”.  [Nokia] Agree. | “If CG-SDT procedure is ongoing” is sufficient.  [Rapp] Corrected  [Langbo] Agree with the updated version v01. |
| LG | Change8 | To simplify the change, the cg-SDT-TAT can be added to the existing text. Then, new text can be removed. The retransmission is allowed only for initial CG-SDT transmission is clear from the procedure text.  [Nokia] We prefer rapporteur’s new text to clarify this is only possible for re-tx of initial CG-SDT transmission. | “If *cg-RetransmissionTimer* or *cg-SDT-RetransmissionTimer* is configured, retransmissions with the same HARQ process may be performed on any configured grant configuration if the configured grant configurations have the same TBS.”  [Rapp] Keep as it is  [Langbo] agree with Rapp. |
| LG | Change13 | We think 8356 like change is better because the logicalChannelSR-DelayTimeer itself is a timer used for SDT.  [Nokia] We would be OK with this approach as well, however, that will require changes also in the SR triggering part. So rapporteur’s proposal could be simpler. | Suggest 8356 like change.  1> else if BSR is triggered for a logical channel for which *logicalChannelSR-DelayTimerApplied* with value *true* is configured by upper layers and SDT procedure is on-going according to clause 5.27:  2> start or restart the *sdt-LogicalChannelSR-DelayTimer*.  1> else:  2> if running, stop the *logicalChannelSR-DelayTimer*.  2> if running, stop the *sdt-LogicalChannelSR-DelayTimer*.  [Rapp] Keep as it is  [Langbo] agree with Rapp. |
| LG | Change10 | “if configured” is redundant. | Remove “if configured”.  [Rapp] This has been dicsused and agreed during online dicsussion. Check the agreement  [Langbo] agree with Rapp. |
| LG | Change14 | We don’t see the need to add “if CG-SDT-TAT is running”. What’s the problem with considering the CG-SDT-TAT expired even if it is not running?  [Nokia] Agree. | Undo the change.  [Rapp] it is possible that CG\_SDT is not configured at all on the selected UL carrier. Why should we consider cg-SDT-TAT expried when there is no configured CG-SDT at all?  [Langbo] agree with Rapp. |
| Xiaomi | Change2 | “the HARQ process” is not clear, as the sentence does not mention whether “the initial CG-SDT transmission for CCCH message” is included in “the HARQ process”. | - *cg-SDT-RetransmissionTimer*: the duration after a configured grant (re)trasnmission of the initial CG-SDT transmission for CCCH message when the UE shall not autonomously retransmit the initial CG-SDT transmission for CCCH message.  [Rapp] The current text aligns with the definition of cg-RT. So prefer to keep the current text  *cg-RetransmissionTimer*: the duration after a configured grant (re)transmission of a HARQ process when the UE shall not autonomously retransmit that HARQ process  [Langbo] Agree with the updated version v01. |
| Nokia | Change2 | Additional “of a HARQ process” as in the original timer text should be added to make the sentence clear. | *cg-SDT-RetransmissionTimer*: the duration after a configured grant (re)trasnmission of a HARQ process of the initial CG-SDT transmission for CCCH message when the UE shall not autonomously retransmit the HARQ process.  [Rapp] corrected  [Langbo] Agree with the updated version v01. |
| vivo | Change2 | In CG-SDT, the first initial trasnmission is not only for CCCH message, we prefer the the wording “the initial CG-SDT transmission with CCCH message”, aligning with the others in the MAC spec. | - *cg-SDT-RetransmissionTimer*: the duration after a configured grant (re)trasnmission of the initial CG-SDT transmission with~~for~~ CCCH message when the UE shall not autonomously retransmit the HARQ process.  [Rapp] corrected  [Langbo] Agree with the updated version v01. |

# Summary