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

E-Meeting August 17th – 26th, 2022

Agenda Item: 6.10.2.1

Source: Google

Title: [DRAFT] Report of [AT119-e][311][SDT-Positioning] Config Transfer

Document for: Discussion, Decision

# Introduction

This document is to kick off the following email discussion:

* [AT119-e][311][SDT-Positioning] Config Transfer (Google)

Discuss LS response on Config Transfer

Deadline: **Friday 2022-08-19 0200 UTC**

# Contact information

Respondents to the email discussion are kindly asked to fill in the following table.

|  |  |
| --- | --- |
| Company | Contact: Name (E-mail) |
| Intel | Marta Martinez Tarradell (marta.m.tarradell@intel.com) |
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# References

[1] [R2-2206931](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206931.zip) LS on transferring SDT configuration and SRS positioning Inactive configuration from DU to CU (R3-223955; contact: Google) RAN3 LS in Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_pos\_enh To:RAN2

[2] [R2-2208596](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2208596.zip) Discussion on RRC IEs in the RAN3 specification Google Inc. discussion Rel-17

[3] [R2-2207120](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2207120.zip) Response to RAN3 LS on SDT containers for F1-AP Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[4] [R2-2208072](file:///C%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202208%20-%20RAN2_119-e%2C%20Online%5CExtracts%5CR2-2208072%20OnContainer.docx) On transferring SDT configuration and SRS positioning Inactive configuration from DU to CU Ericsson discussion Rel-17

# Discussion

RAN2 received the LS [1] from RAN3 and the following is from quoted from the RAN3 LS:

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| --- |
| In case of CG-SDT, gNB-DU provides the CG-SDT related resource configuration to gNB-CU within the *DU to CU RRC Information* IE in F1AP.According to TS 38.331 v17.0.0, there are two RRC IEs for the CG-SDT configuration:* SDT-MAC-PHY-CG-Config-r17 (actual IE that defines CG-SDT configuration generated by DU)
* SDT-CG-Config-r17 (OCTET STRING container for SDT-MAC-PHY-CG-Config-r17)

RAN3 would like to know which RRC IE should be carried within the *DU to CU RRC Information* IE in F1AP when the gNB-CU generates the *RRCRelease* message including suspend configuration.In the same line of question, the SRS Positioning INACTIVE configuration which is generated by gNB-DU is associated with two RRC IEs according to the baseline (R2-2206384):* SRS-PosRRC-InactiveConfig-r17 (actual IE)
* SRS-PosRRC-Inactive-r17 (OCTET STRING container for SRS-PosRRC-InactiveConfig-r17)

RAN3 also would like to know which RRC IE should be carried in F1AP when the gNB-CU generates the *RRCRelease* message including suspend configuration. |

In [2] and [3], *CellGroupConfig* is used an example for explanation because *CellGroupConfig* is referred to in the *DU to CU RRC Information* IE in the RAN3 specification. It is pointed out in [2] and [3] that the CU can transparently include the DU-generated *CellGroupConfig* in the OCTET STRING defined in the current ASN.1. For the same reasoning and similarity, it is proposed in [2] and [3] to reply RAN3 that *SDT-MAC-PHY-CG-Config-r17* and *SRS-PosRRC-InactiveConfig-r17* are referred to in the RAN3 specification.

It is propos in [4] to reply RAN3 that both IEs for SRS Positioning INACTIVE configuration can work and if F1AP refers IE on CU side that would imply less overhead for CU.

**Question: Do you agree to indicate RAN3 that *SDT-MAC-PHY-CG-Config-r17* and *SRS-PosRRC-InactiveConfig-r17* are referred to in the RAN3 specification, as proposed in [2] and [3]? If the answer is “No”, please provide your comments.**

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| **Company** | **Yes/No** | **Additional comments**  |
| Intel | Yes (with comments) | RAN2 needs to also indicate that these IEs should be defined in F1-AP as an "OCTET STRING" that is set by DU and to be conveyed to UE via CU transparently (as part of *RRCRelease* message). |
| CATT | Yes | Support to reuse the same principle for *CellGroupConfig*. |
| OPPO | Yes |  |
| Huawei | Yes | We have the same understanding as Intel |
| ZTE | Yes | We also agree with Intel |
| InterDigital | Yes | We also agree with Intel |
| Qualcomm | Yes |  |
| Google | Yes | In section 9.3.1.26 in 38.473 v17.1.0, RAN3 has defined the IE (i.e.,”SDT-MACPHY-Config”) as OCTET STRING to contain SDT-MAC-CG-Config-r17. RAN3 is waiting for RAN2 reply LS to indicate which RRC IE is referred to for this OCTET STRING.We also checked all the RAN3 CRs proposing to add a new F1AP IE in F1AP messages to contain the RRC SRS positioning INACTIVE configuration. They all use OTECT STRING for the new F1AP IE. |
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# Conclusions

8 companies joined the discussion. Based on the comments, the following are concluded:

1. All companies agree that *SDT-MAC-PHY-CG-Config-r17* and *SRS-PosRRC-InactiveConfig-r17* are referred to in the RAN3 specification.
2. Intel proposes to indicate RAN3 that the two IEs should be defined in F1-AP as an "OCTET STRING" that is set by DU. Some companies agree with Intel’s proposal. The other don’t disagree the proposal. Therefore, Intel’s proposal is considered as acceptable to all companies.

A draft reply LS will be provided based on the above.