3GPP TSG-RAN WG2 Meeting #113 bis electronic [R2-2104304](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104304.zip)

Online, April 12 – April 20, 2021

Source: Session Chair (InterDigital)

Title: Report for Rel-17 Small data and URLLC/IIoT

**Email discussions:**

* [AT113bis-e][500] Organizational Diana – URLLC/IIoT, Small data]

Scope:

* + - Share plans for the meetings and list of ongoing email discussions for the sessions related to URLLC/IIoT, Small data and NR-U, 2-step RACH, and power saving
		- Share meetings notes and agreements for review and endorsement
* [AT113bis-e][501][SDT] UP SDT open issues (LG)

Scope:

* + - Discuss open UP SDT open issues AI 8.6.2

 Intended outcome:

* + - Agreeable Proposals in [R2-2104395](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104395.zip)

 Deadline for providing comments:

* + - Companies inputs April 15th 2300 UTC
		- Rapporteur Proposals – April 16th 0800 UTC
		- Comments on Proposals and final proposals – April 19th 1200 UTC

## 8.5 NR IIoT URLLC

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-210854)

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

Email max expectation: 0 threads

THIS FEATURE WILL NOT BE TREATED in 113bis-e online and offline (i.e. no in-meeting email discussions). However, two post-meeting email discussions to get company views will be triggered for 8.5.3 and 8.5.4 (see below)

### 8.5.1 Organizational

Rapporteur input

No input expected

[R2-2102631](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102631.zip) LS on gNB-based propagation delay compensation (R3-211136; contact: Nokia) RAN3 LS in Rel-17 NR\_IIOT\_URLLC\_enh To:RAN1, RAN2 Cc:-

### 8.5.2 Enhancements for support of time synchronization

Including requirements and scope.

No input expected

This AI will not be treated in 113bis-e and no email discussion will be triggered on this topic during or post April meeting.

### 8.5.3 Uplink enhancements for URLLC in unlicensed controlled environments

RAN2 aspects related to URLLC in unlicensed controlled environments. Initial discussion on potential impacts, including requirements and scope

This AI will NOT be treated in 113bis-e and NO in meeting email discussions will be triggered.

Contributions on this topic can be submitted, but is not required, and a post April meeting email discussion is expected to be triggered to get company inputs on the remaining open issues.

[R2-2102685](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102685.zip) CG Harmonization for Unlicensed Controlled Environment Qualcomm Incorporated discussion Rel-17

[R2-2102725](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102725.zip) URLLC in UCE CATT discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2102992](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102992.zip) HARQ Process Prioritization of Configured Grant for IIoT in NR-U Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2103059](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103059.zip) Remaining issues about uplink enhancements for URLLC in UCE Huawei, HiSilicon discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2103072](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103072.zip) Uplink enhancements for URLLC in unlicensed controlled environments Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2103126](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103126.zip) Issue of Prioritizing Initial Transmission over Retransmission on a CG vivo discussion

[R2-2103211](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103211.zip) Consideration on URLLC over NRU OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2103297](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103297.zip) Enhancements for URLLC in unlicensed controlled environments Lenovo, Morotola Mobility discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2103428](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103428.zip) Harmonizing UL CG enhancements in NR-U and URLLC Ericsson discussion Rel-17

[R2-2103441](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103441.zip) Further Consideration on the UL transmission in UCE ZTE Corporation, Sanechips discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2103492](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103492.zip) CG Harmonization for NR-U and IIoT/URLLC in Unlicensed Controlled Environments III discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2103566](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103566.zip) Prioritization of UL transmissions in unlicensed URLLC Sony Europe B.V. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2103648](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103648.zip) CG Harmonization for UCE Samsung discussion Rel-17

[R2-2103688](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103688.zip) Discussion on the remaining issue for uplink enhancements for URLLC in UCE CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2103797](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103797.zip) IIoT operation in unlicensed controlled environments InterDigital discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2104103](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104103.zip) Further details on harmonization LG Electronics UK discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2104224](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104224.zip) Remaining issues of CG harmonization Xiaomi Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

=> Revised in [R2-2104288](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104288.zip)

[R2-2104288](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104288.zip) Remaining issues of CG harmonization Xiaomi Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

### 8.5.4 RAN enhancements based on new QoS

RAN enhancements based on new QoS related parameters if any, e.g. survival time, burst spread, decided in SA2. [RAN2, RAN3]

This AI will NOT be treated in 113bis-e and NO in meeting email discussions will be triggered.

Contributions on this topic can be submitted taking into account SA2 progress, but is not required, and a post April meeting email discussion is expected to be triggered to get company inputs on the remaining open issues.

[R2-2102686](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102686.zip) RAN Enhancement to support new QoS Qualcomm Incorporated discussion Rel-17

[R2-2102726](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102726.zip) Handling of Survival Time CATT discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2102993](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102993.zip) RAN Enhancement for New QoS Parameters Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2103060](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103060.zip) RAN enhancements based on new QoS related parameters Huawei, HiSilicon discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2103125](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103125.zip) Discussion on RAN enhancement to support survival time vivo discussion

[R2-2103196](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103196.zip) Topics on new QoS handling Fujitsu discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core [R2-2000418](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2000418.zip)

[R2-2103212](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103212.zip) RAN enhancement based on new QoS OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2103329](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103329.zip) Further considerations on new QoS ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion NR\_IIOT\_URLLC\_enh-Core [R2-2100328](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2100328.zip)

[R2-2103420](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103420.zip) Discussion on RAN enhancements based on Survival Time III discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core [R2-2100449](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2100449.zip)

[R2-2103429](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103429.zip) RAN enhancements based on new QoS related parameters Ericsson discussion Rel-17

[R2-2103432](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103432.zip) Entering and operating in the Survival Time state Samsung Electronics GmbH discussion

[R2-2103689](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103689.zip) Discussion on the RAN support for new QoS parameters CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh

[R2-2103735](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103735.zip) RAN2 Enhancements for Support of QoS Parameters Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2103798](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103798.zip) Enhancements based on new QoS requirements InterDigital discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2103896](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103896.zip) Discussion on entering and exiting survival time state Futurewei Technologies discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2104097](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104097.zip) View on survival time mechanisms LG Electronics UK discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2104225](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104225.zip) Clarification on the survival time Xiaomi Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2104265](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104265.zip) RAN enhancements based on new QoS TCL Communication Ltd. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

## 8.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: RP-210870)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

FFS whether RACH partitioning should be initially done as a common design for multiple WIs: RAN slicing, RedCap, Small Data Transmission, CovEnh? Or whether coordination should be attempted once each WI has produced CRs.

### 8.6.1 Organizational

In coming LSs, rapporteur input for email discussions summaires etc (tdocs in this don’t count towards tdoc limit).

Including [Post113-e][501][502][503][504]

[R2-2102620](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102620.zip) Reply LS on physical layer aspects of small data transmission (R1-2102125; contact: ZTE) RAN1 LS in Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN2

[R2-2102634](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102634.zip) Reply LS on small data transmission (R3-211280; contact: Ericsson) RAN3 LS in Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN2 Cc:-

[R2-2103527](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103527.zip) Stage-2 running CR Introduction of SDT Nokia, Nokia Shanghai Bell CR Rel-17 38.300 16.5.0 0357 - B NR\_SmallData\_INACTIVE-Core

[R2-2102707](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102707.zip) Report from email discussion [POST113-e][501][SDT] Selection criteria and overall Procedure Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

Proposal 1 (26/1): RSRP threshold is used to select between SDT and non-SDT procedure.

Proposal 2 (26/1): RSRP threshold to select between SDT and non-SDT procedure is used for both CG-SDT and RA-SDT.

Proposal 3 (25/1): RSRP threshold to select between SDT and non-SDT procedure is same for both CG-SDT and RA-SDT.

Proposal 4 (20/6): RSRP threshold for carrier selection is specific to SDT (i.e. separately configured for SDT)

Proposal 5 (26/1): RSRP threshold for RA type selection is specific to SDT (i.e. separately configured for SDT)

Proposal 6 (18/8): Data volume threshold is the same for CG-SDT and RA-SDT

Proposal 7A: Upon arrival of data only for DRB(s) for which SDT is enabled, the high level procedure for selection between SDT and non SDT procedure is as follows:

If CG-SDT criteria is met: UE selects CG-SDT. UE initiate SDT procedure

Else if RA-SDT criteria is met: UE selects RA-SDT. UE initiate SDT procedure

Else: UE initiate non SDT procedure.

Proposal 7B: CG-SDT criteria is considered met, if all of the following conditions are met,

1) available data volume <= data volume threshold

2) RSRP is greater than or equal to a configured threshold

3) CG-SDT resources are configured on the selected UL carrier and are valid

Proposal 7C: RA-SDT criteria is considered met, if all of the following conditions are met,

1) available data volume <= data volume threshold

2) RSRP is greater than or equal to a configured threshold

3) 4 step RA-SDT resources are configured on the selected UL carrier and criteria to select 4 step RA SDT is met; or 2 step RA-SDT resources are configured on the selected UL carrier and criteria to select 2 step RA SDT is met

- For RA-SDT, if SUL is configured in the cell, UL carrier is selected based on RSRP threshold configured for SDT. RA type selection is performed based on RSRP threshold configured for SDT

Proposal 8 (16/7): Switching from CG-SDT to RA-SDT is not allowed.

Proposal 9 (27/0): Switching from SDT to non-SDT is supported.

Proposal 10: UE switches from SDT to non-SDT in following cases:

- Case 1 (27/0): UE receive indication from network to switch to non-SDT procedure.

- Network can send RRCResume. FFS whether network can send indication in RAR/fallbackRAR to switch to non-SDT procedure.

- Case 2 (18/9): Initial UL transmission (in msgA/Msg3/CG resources) fails configured number of times

[R2-2103022](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103022.zip) Summary of General and other control plane open issues for SDT (email: [Post 113-e][502]) Rapporteur (ZTE) discussion

Proposal 1: Non-SDT radio bearers are only resumed upon receiving RRCResume (same as today)

Proposal 2: When data arrives on non-SDT bearer during SDT, then the UE shall send a DCCH message. The detailed contents of the message are FFS (new message/using an existing message etc)

- If non-SDT data arrives during SDT, then the RRC layer will generate a DCCH message and submit it to the lower layers. The MAC layer will include this in UL after contention resolution. If contention resolution fails a new RACH procedure will be triggered by MAC (same as today) and the DCCH message can be sent after RACH procedure is complete.

Proposal 3: gNB can only configure MN terminated MCG bearer type for SDT

[R2-2103897](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103897.zip) DRAFT Reply LS on small data transmission Ericsson LS out Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN3

[R2-2104490](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104490.zip) DRAFT Reply LS on physical layer aspects of small data transmission (Reply to [R2-2102620](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102620.zip)) ZTE Corporation LS out Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN1

### 8.6.2 User plane common aspects

Overall user plane procedure for SDT (including triggering and thresholds, HARQ, and MAC CEs), data volume computation,. suppression of PDCP status report, RSRP threshold for SDT selection, switching between CG/RA, and any other user aspects included in Post113-e][501][503] which cannot be concluded as part of the email

Email discussion summary expected for this AI durin 113bis-e

[R2-2104395](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104395.zip) Summary of UP SDT open issues LG

[CB on Tuesday, April 20th]

[R2-2102708](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102708.zip) User Plane Common Aspects of RACH and CG based SDT Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102750](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102750.zip) Discussion on user plane issues of SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102755](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102755.zip) Discussion on User Plane Aspect of Small Data Transmission vivo discussion NR\_SmallData\_INACTIVE-Core [R2-2100139](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2100139.zip)

[R2-2102840](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102840.zip) User plane aspects for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103018](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103018.zip) User plane open issues for SDT ZTE Corporation, Sanechips discussion

[R2-2103102](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103102.zip) Analysis on UP common aspects of SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103197](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103197.zip) Support of CA and PDCP CA duplication Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core [R2-2100419](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2100419.zip)

[R2-2103319](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103319.zip) The UP common issues for small data transmissions Lenovo, Motorola Mobility discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103430](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103430.zip) Discussion on user plane common aspects of NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core [R2-2101221](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2101221.zip)

[R2-2103444](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103444.zip) Discussion on data volume threshold for small data transmission PANASONIC R&D Center Germany discussion

[R2-2103454](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103454.zip) Avoid triggering RA during subsequent SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103521](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103521.zip) Common aspects for SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103528](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103528.zip) User Plane common aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103531](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103531.zip) User plane common aspects for SDT Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103583](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103583.zip) Some aspects of User Plane for SDT in NR Sony Europe B.V. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103672](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103672.zip) Discussion on small data transmission Google Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103674](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103674.zip) Discussion on beam operations for small data transmission Google Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103714](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103714.zip) Remaining issues on transmission type selection and overall procedure CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103870](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103870.zip) User plane aspects on the SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103990](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103990.zip) Consideration on overall SDT procedure and criteria LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2104206](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104206.zip) On the overall and detailed procedure of SDT China Telecommunications discussion

[R2-2104220](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104220.zip) Discussion on data volume calculation Xiaomi Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2104263](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104263.zip) Discussion on Small Data Transmission TCL Communication Ltd. discussion Rel-17

### 8.6.3 Control plane common aspects

Cell reselection and failure handling, handling of subsequent data transmissins (including, how to indicate presence of subsequent data, etc) handling of non-SDT DRBs (including whether to resume or not non-SDT), CP data over SDT, SDT termination and data loss prevention and any other control plane aspects included in [Post113-e][501][502][503] which cannot be concluded as part of the email

[R2-2103971](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103971.zip) Report of [Post113-e][503][SDT] T319, cell reselection and re-establishment InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

**Large majority:**

Proposal 1: SDT failure detection timer is started upon initial SDT transmission (21/25).

Proposal 2: T319 is not started if RRCResumeRequest or RRCResumeRequest1 is transmitted for SDT (23/25).

Proposal 4: T319 stop conditions also apply to SDT failure detection timer (22/25).

Proposal 6: RRC re-establishment procedure is not supported for SDT (21/25).

**Requires online discussion**

Proposal 3: RAN2 to decide whether SDT failure detection timer: 1) has an extended duration to accommodate subsequent SDT (13/25); or 2) is restarted upon (re)transmission or reception of small data (12/25).

Proposal 5: An LS is sent to SA3 to verify feasibility/impacts of re-using same NCC/I-RNTI value temporarily for RRC Resume procedure in new cell during SDT procedure (13/25).

Proposal 8: Upon SDT failure detection timer expiry, the same procedure as T319 expiry is used (e.g. transition to IDLE as in the case of expiry of the T319 timer and attempts RRC connection setup) (18/25).

**Postpone to next meeting**

Proposal 7: RAN2 to select between the following options for cell re-selection during ongoing SDT procedure next meeting: 1) UE transitions to IDLE, possibly performing high-layer retransmission (8/25); or 2) UE remains in INACTIVE and sends RRC Resume to new cell (12/25).

Not treated

[R2-2102709](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102709.zip) Control Plane Common Aspects of RACH and CG based SDT Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102751](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102751.zip) Discussion on control plane issues of SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102756](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102756.zip) Discussion on RRC-Controlled Small Data Transmission vivo discussion NR\_SmallData\_INACTIVE-Core [R2-2100140](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2100140.zip)

[R2-2102841](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102841.zip) Signalling and NAS-AS interaction for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102842](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102842.zip) Fallback and failure handling for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102900](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102900.zip) New timers for SDT failure detection Langbo discussion Rel-17 NR\_SmallData\_INACTIVE-Core Late

=> Withdrawn

[R2-2102991](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102991.zip) Handling of non-SDT traffic arrival PANASONIC R&D Center Germany discussion

[R2-2103019](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103019.zip) Control plane aspects of SDT ZTE Corporation, Sanechips discussion

[R2-2103103](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103103.zip) Considerations on Some Common Control Plane Issues CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103151](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103151.zip) Handling of non-SDT data arrival Potevio Company Limited discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103198](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103198.zip) RAN paging reception and response during SDT Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103257](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103257.zip) Handling of non-SDT data during SDT ETRI discussion

[R2-2103299](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103299.zip) Discuss on solutions for arriving of non-SDT data during SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103405](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103405.zip) Consideration on CP issues for small data transmission Lenovo, Motorola Mobility discussion Rel-17

[R2-2103431](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103431.zip) Discussion on control plane common aspects of NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core [R2-2101223](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2101223.zip)

[R2-2103455](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103455.zip) Beam management in SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103497](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103497.zip) SDT control plane aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2103522](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103522.zip) CP aspects for SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103568](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103568.zip) Discussion on subsequent SDT in NR, timer handling, and support for SRB1/2 Sony Europe B.V. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103715](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103715.zip) Non-SDT data transmission CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103796](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103796.zip) Subsequent small data transmission InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103867](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103867.zip) Non-SDB handling during the SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103868](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103868.zip) Control plane aspects on the SDT procedure Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103904](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103904.zip) Control plane common aspects for SDT Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103970](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103970.zip) CP and configuration aspects for small data InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103972](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103972.zip) [Draft] LS to SA WG3 on re-use of same NCC and I-RNTI value for RRC Resume procedure in different cells during small data transmission procedure. InterDigital LS out Rel-17 NR\_SmallData\_INACTIVE-Core To:SA3

[R2-2103989](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103989.zip) Discussion on switching to non-SDT procedure LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103991](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103991.zip) Discussion on cell reselection during SDT LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2104204](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104204.zip) Resuming non-SDT RBs and indication LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core Late

[R2-2104221](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104221.zip) Discussion on the support of the RRC-less SDT Xiaomi Communications, Intel Corporation, ASUSTeK, Fujitsu, MediaTek, Apple, Spreadtrum Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2104222](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104222.zip) Technical details of the RRC-less SDT Xiaomi Communications, ASUSTeK, Fujitsu, Spreadtrum Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

### 8.6.4 Aspects specific to RACH based schemes

RA resource configuration and selection, PDCCH monitoring after successful SDT RA completion, RAN2 specific details of context fetch/data forwarding with and without anchor relocation

[R2-2102710](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102710.zip) Details of RACH bsaed Small Data Transmission Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102752](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102752.zip) Discussion on RACH based SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102757](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102757.zip) Supporting Small Data Transmission via RA Procedure vivo discussion NR\_SmallData\_INACTIVE-Core [R2-2100141](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2100141.zip)

[R2-2102847](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102847.zip) Fallback issue for 2-step RA based small data transmission Sharp discussion NR\_SmallData\_INACTIVE-Core [R2-2100413](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2100413.zip)

[R2-2103020](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103020.zip) Open issues for RACH based SDT ZTE Corporation, Sanechips discussion

[R2-2103104](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103104.zip) Considerations on Procedures without Anchor Relocation CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103105](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103105.zip) Analysis on Search Space of RA-SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103252](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103252.zip) Discussion on RACH-based SDT Spreadtrum Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103264](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103264.zip) PDCCH monitoring in subsequent data transmission period Asia Pacific Telecom co. Ltd, FGI discussion

[R2-2103403](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103403.zip) Analysis on open issues of RA based SDT Lenovo, Motorola Mobility discussion Rel-17

[R2-2103433](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103433.zip) Discussion on RACH based NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core [R2-2101231](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2101231.zip)

[R2-2103456](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103456.zip) Discussion on RO configuration between SDT and non-SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103519](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103519.zip) RACH based SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103529](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103529.zip) Details of context fetch and data forwarding Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103580](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103580.zip) Discussion on context fetch and anchor relocation Sony Europe B.V. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103716](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103716.zip) Anchor relocation and context fetch CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103869](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103869.zip) Subsequent data transmission for SDT Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103903](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103903.zip) Small data transmission with RA-based schemes Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

### 8.6.5 Aspects specific to CG based schemes

This AI will not be treated in RAN2#113bis-e (only the email discussion [504] in AI 8.6.1 will be treated)

CG resources, configuration and selection, validity of CG resources, multiple CG configurations, handling of beam selection for CG (including association between CGs and SSBs) etc, any other aspects included in [Post113-e][504][SDT] which cannot be concluded as part of the email

[R2-2103533](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103533.zip) Report from [POST113-e][504][SDT] CG Open Issues Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

The following proposals are potentially easily agreeable:

Proposal1: CG-SDT resources can be configured at the same time on NUL and SUL (23/23)

Proposal2: Implict release of CG-SDT resource is not supported. (0/24)

Proposal3: UE start a window after CG/DG transmission for CG-SDT (24/24). FFS whether to design a new timer or to reuse an existing timer.

Proposal4: Support retransmission by dynamic grant for CG-SDT. (24/24)

Proposal5: Support multiple HARQ processes for uplink CG-SDT. (18/24)

Proposal6: CG resource availability delay is not considered as a criterion for CG validation. (18/20)

Proposal7: UL carrier selection is performed before CG-SDT transmission. (23/24)

The following proposals need further discussion:

Proposal8: RAN2 should further discuss whether to support CG configuration request.

Proposal9: Release of CG-SDT configuration by system information indication is not supported. (5/21)

Proposal10: CG-SDT resource can be configured on BWPs other than initial BWP (17/24).

Proposal11: RAN2 should further discussion whether to support autonomous retransmission for CG-SDT.

Proposal12: Support L1-ACK feedback for CG-SDT. (14/24) Send an LS to RAN1 on this.

Proposal13: UE does not select any SSB if none of the SSBs’ RSRP is above the RSRP threshold. (18/23) FFS the UE behavior when none of the SSB’s RSRP is above the threshold

Not treated

[R2-2102711](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102711.zip) Details of Configured Grant based Small Data Transmission Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102753](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102753.zip) Discussion on CG based SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2102758](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102758.zip) Supporting Small Data Transmission via CG configuration vivo discussion NR\_SmallData\_INACTIVE-Core

[R2-2102843](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2102843.zip) On Configured Grant aspects for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103021](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103021.zip) Open issues for CG based SDT ZTE Corporation, Sanechips discussion

[R2-2103199](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103199.zip) PDCCH monitoring after TAT expiry Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core [R2-2000420](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2000420.zip)

[R2-2103265](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103265.zip) CG-SDT based on beam operation Asia Pacific Telecom co. Ltd, FGI discussion

[R2-2103367](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103367.zip) Aspects specific to CG based SDT Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2103404](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103404.zip) Consideration on CG based small data transmission Lenovo, Motorola Mobility discussion Rel-17

[R2-2103434](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103434.zip) Discussion on CG based NR small data transmission Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core [R2-2101233](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2101233.zip)

[R2-2103457](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103457.zip) Beam selection for CG-SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core [R2-2101752](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2101752.zip)

[R2-2103520](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103520.zip) Details of CG based SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103532](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103532.zip) Small data transmission with CG-based scheme Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103581](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103581.zip) Details of CG-based scheme for SDT in NR Sony Europe B.V. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2103795](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2103795.zip) CG-based SDT InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2104223](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104223.zip) Remaining issues of CG SDT Xiaomi Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2104241](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5C113bise%5CDocs%5CR2-2104241.zip) On CG Resource Configuration in Small Data enhancement China Telecommunications discussion