3GPP TSG-RAN WG2 Meeting #118 electronic [R2-2206154](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206154.zip)

Online, May, 2022

Source: Session Chair (InterDigital)

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

**Email discussions:**

* [AT118-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
* [AT118-e][501][Sdata] CP Open issues and CR to 38.331 (ZTE)

CP open issues and CR capturing agreed corrections

Deadline: To be set by rapporteur aiming to have company inputs and proposals by Friday

* [AT118-e][502][Sdata] UP open issues and CR to 38.321 (Huawei)

UP open issues and CR capturing agreed corrections

Deadline: To be set by rapporteur aiming to have company inputs and proposals by Friday

* [AT118-e][503][Sdata] CR 38.300 (Nokia)

CR capturing agreed corrections

Deadline:

* [AT118-e][504][IIoT] CR 38.300 (Nokia)

CR capturing agreed corrections

Deadline:

* [AT118-e][505][IIoT] CP open issues and CR 38.331 (Ericsson)

 CP open issues and CR capturing agreed corrections

Deadline: To be set by rapporteur aiming to have company inputs and proposals by

* [AT118-e][506][IIoT] UP open issues and CR 38.321 (Samsung)

 UP open issues and CR capturing agreed corrections

Deadline: To be set by rapporteur aiming to have company inputs and proposals by Friday

* [AT118-e][507][RA Part] CP open issues and CR 38.331 (Ericsson)

 CP open issues and CR capturing agreed corrections

Deadline: To be set by rapporteur aiming to have company inputs and proposals by

* [AT118-e][508][RA Part] UP open issues and CR 38.321 (ZTE)

 UP open issues and CR capturing agreed corrections

Deadline: To be set by rapporteur aiming to have company inputs and proposals by Friday

* [AT118-e][509][SData] CR to 38.304 (Vivo)
* [AT118-e][510][RA Part] CR to 38.300 (Nokia)

## 6.5 NR IIoT URLLC

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

Tdoc Limitation: 3 tdocs

WI has been declared 100% complete

### 6.5.1 Organizational

Including LSs, rapporteur correction CR, and any rapporteur inputs (e.g. from ASN.1 ad-hoc meeting).

[R2-2204416](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204416.zip) RE: LS on Time Synchronization IEEE 1588 WG LS in To:RAN, SA Cc:RAN2

=> Withdrawn (replaced by [R2-2206117](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206117.zip))

[R2-2206117](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206117.zip) RE: LS on Time Synchronization IEEE 1588 WG LS in

[R2-2204480](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204480.zip) Reply LS on propagation delay compensation (R4-2207021; contact: Huawei) RAN4 LS in Rel-17 NR\_IIOT\_URLLC\_enh-Core To:RAN1, RAN2

[R2-2204519](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204519.zip) Reply Time Synchronization support in 3GPP (S2-2203229; contact: Ericsson) SA2 LS in Rel-17 IIoT To:ITU-T SG-15 Cc:RAN2

[R2-2205506](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205506.zip) Summary of [Pre118-e][502][IIoT URLLC] 38331 CR and rapporteur resolutions (Ericsson) Ericsson discussion Late

[R2-2205507](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205507.zip) Correction for enhanced IIoT&URLLC support for NR Ericsson CR Rel-17 38.331 17.0.0 3093 - F NR\_IIOT\_URLLC\_enh-Core Late

[R2-2205683](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205683.zip) CR for procedure level alignment of UL skipping Apple CR Rel-17 38.321 17.0.0 1280 - D NR\_IIOT\_URLLC\_enh-Core

[R2-2205710](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205710.zip) Correction for Enhanced NR IIoT and URLLC in 38.321 Samsung CR Rel-17 38.321 17.0.0 1281 - F NR\_IIOT\_URLLC\_enh-Core

[R2-2205732](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205732.zip) Consideration on meeting very low latency requirement in TDD ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2205734](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205734.zip) [DRAFT] Reply LS on RAN feedback for low latency ZTE Corporation, Sanechips LS out Rel-17 NR\_IIOT\_URLLC\_enh-Core To:SA2 Cc:RAN3

### 6.5.2 Control Plane

A single CR with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big open issues can be discussed with contributions with CR in the appendix of the contribution

[R2-2205509](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205509.zip) On unresolved RIL issues Ericsson discussion

[R2-2204758](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204758.zip) [O500,O501] Clarification on the usage of sib9Fallback OPPO draftCR Rel-17 38.331 17.0.0 F NR\_IIOT\_URLLC\_enh-Core

[R2-2204866](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204866.zip) Remaining issue of PDC calculation based on measurements for single pair of RSs Huawei, HiSilicon discussion Rel-17 38.331 NR\_IIOT\_URLLC\_enh-Core

[R2-2204867](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204867.zip) Resolution of remaining issue of PDC calculation Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3006 - F NR\_IIOT\_URLLC\_enh-Core

[R2-2204868](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204868.zip) Miscellenous corrections to RRC spec for IIoT [H701] [H702] [H703] Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3007 - F NR\_IIOT\_URLLC\_enh-Core

[R2-2205508](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205508.zip) Multi-TB scheduling in UCE Ericsson discussion

[R2-2206006](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206006.zip) Discussion on ta-PDC and sib9Fallback for IIoT ZTE Corporation, Sanechips discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

### 6.5.3 User Plane

A single CR with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big open issues can be discussed with contributions with CR in the appendix of the contribution

R2-2206222 Summary of IIOT/URLLC User Plane Samsung

[R2-2204665](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204665.zip) Correction on Simultaneous PUCCH/PUSCH Transmission CATT discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2204666](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204666.zip) Corrections on the description of simultaneous PUCCH/PUSCH transmission CATT CR Rel-17 38.321 17.0.0 1226 - F NR\_IIOT\_URLLC\_enh-Core

[R2-2204759](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204759.zip) Correction on the simultaneous PUCCH PUSCH transmission OPPO, Samsung draftCR Rel-17 38.321 17.0.0 F NR\_IIOT\_URLLC\_enh-Core

[R2-2204760](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204760.zip) Open issues on the termination of the CGT OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2205019](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205019.zip) Correction on duplication activation for survival time state entry Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.0.0 0450 - F NR\_IIOT\_URLLC\_enh-Core

[R2-2205020](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205020.zip) Correction on duplication activation with UL retransmission grant reception Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.0.0 1246 - F NR\_IIOT\_URLLC\_enh-Core

[R2-2205021](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205021.zip) Corrections on HARQ feedback deferral Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.0.0 1247 - F NR\_IIOT\_URLLC\_enh-Core

[R2-2205460](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205460.zip) Clarification on the SPS HARQ deferral Xiaomi Communications draftCR Rel-17 38.321 17.0.0 F NR\_IIOT\_URLLC\_enh-Core Revised

[R2-2205510](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205510.zip) correction for PDCP duplication with survivalTimeSupport Ericsson, Samsung draftCR Rel-17 38.321 17.0.0 NR\_IIOT\_URLLC\_enh-Core

[R2-2205680](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205680.zip) Impact of Rel-17 PHY prioritization on MAC Apple discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

[R2-2205681](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205681.zip) Draft CR for impact of Rel-17 PHY prioritization on MAC Apple draftCR Rel-17 38.321 17.0.0 F NR\_IIOT\_URLLC\_enh-Core

[R2-2205711](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205711.zip) Correction of HARQ RTT Timer Handling Samsung draftCR Rel-17 38.321 17.0.0 F NR\_IIOT\_URLLC\_enh-Core Late

[R2-2206028](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206028.zip) Clarification on the SPS HARQ deferral Xiaomi Communications, Samsung draftCR Rel-17 38.321 17.0.0 F NR\_IIOT\_URLLC\_enh-Core [R2-2205460](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205460.zip)

## 6.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: RP-212594)

Tdoc Limitation: 3 tdocs

WI has been declared 100% complete

### 6.6.1 Organizational

Including LSs, rapporteur correction CR and any rapporteur inputs (e.g. from ASN.1 ad-hoc meeting).

[R2-2204431](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204431.zip) NAS's trigger for resume for SDT (C1-221891; contact: OPPO) CT1 LS in Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN2

=> Noted

[R2-2204445](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204445.zip) Reply LS on the physical layer aspects of small data transmission (R1-2202656; contact: ZTE) RAN1 LS in Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN2

=> Noted

[R2-2204455](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204455.zip) Reply LS on Security of Small data transmission (S3-220463; contact: Intel) SA3 LS in Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN2 Cc:RAN3

- Treated last meeting and given that RAN2 agreed to DCCH solution there is no impact SA3 and no need for reply LS

=> Noted

[R2-2205552](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205552.zip) [Draft] LS on the L1 related agreements for SDT ZTE Corporation (rapporteur) LS out Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN1

- Nokia thinks there is no need to send the LS at this point

[CB based on other agreements]

[R2-2205834](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205834.zip) Corrections on SDT Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.0.0 0465 - F NR\_SmallData\_INACTIVE-Core

=> The changes are agreable

=> Wait for other agreements and continue by email

### 6.6.2 User plane common aspects

A single CR with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big critical issues can be discussed in a contribution with CR in the appendix of the contribution

[R2-2206341](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206341.zip) Summary of the AI 6.6.2 for SDT User Plane Huawei, HiSilicon discussion NR\_SmallData\_INACTIVE-Core

[R2-2206342](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206342.zip) Email discussion for AI 6.6.2 for SDT User Plane Huawei, HiSilicon discussion NR\_SmallData\_INACTIVE-Core

[R2-2204533](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204533.zip) Corrections to RA Trigger during the ongoing CG-SDT procedure Samsung Electronics Co., Ltd draftCR Rel-17 38.321 17.0.0 NR\_SmallData\_INACTIVE-Core

[R2-2204534](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204534.zip) Corrections to UL TA handling upon Contention resolution during CG-SDT Samsung Electronics Co., Ltd draftCR Rel-17 38.321 17.0.0 NR\_SmallData\_INACTIVE-Core

[R2-2204836](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204836.zip) [V537]-[V540] L1 Parameter Correction for CG-SDT vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2204973](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204973.zip) Consideration on UP Remaining Issues of SDT CATT discussion NR\_SmallData\_INACTIVE-Core

[R2-2204983](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204983.zip) Editor's correction to MAC spec for Small Data Transmission Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips CR Rel-17 38.321 17.0.0 1243 - F NR\_SmallData\_INACTIVE-Core

=> Revised in [R2-2206066](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206066.zip)

[R2-2206066](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206066.zip) Editor's correction to MAC spec for Small Data Transmission Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips CR Rel-17 38.321 17.0.0 1243 1 F NR\_SmallData\_INACTIVE-Core

=> Revised in [R2-2206343](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206343.zip)

[R2-2206343](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206343.zip) Editor's correction to MAC spec for Small Data Transmission Huawei, HiSilicon CR Rel-17 38.321 17.0.0 1243 2 F NR\_SmallData\_INACTIVE-Core

[R2-2205045](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205045.zip) Remaining user plane issues of SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205152](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205152.zip) Consideration on Stored RSRP for CG-SDT TA validation CATT discussion NR\_SmallData\_INACTIVE-Core

[R2-2205214](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205214.zip) Remaining UP open issues for SDT Lenovo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205217](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205217.zip) TP for RNAU with CG Type 1 and PDCP control PDU transmission Lenovo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205243](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205243.zip) Remaining issues of SDT UP aspects Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205270](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205270.zip) Discussion on remaining UP issues of SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205271](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205271.zip) Correction for RACH triggered events OPPO draftCR Rel-17 38.300 17.0.0 NR\_SmallData\_INACTIVE-Core

[R2-2205289](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205289.zip) Correction to TA validation for CG-SDT Huawei, HiSilicon CR Rel-17 38.321 17.0.0 1270 - F NR\_SmallData\_INACTIVE-Core

[R2-2205343](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205343.zip) Collison of PUCCH and PUSCH for SDT Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205550](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205550.zip) User plane open issues for SDT ZTE Corporation, Sanechips discussion Rel-17

[R2-2205588](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205588.zip) CG timer use in CG-SDT procedure Ericsson discussion Rel-17 38.321 NR\_SmallData\_INACTIVE-Core

[R2-2205597](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205597.zip) Validation of CG-SDT occasions Ericsson discussion Rel-17 38.321 NR\_SmallData\_INACTIVE-Core

[R2-2205835](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205835.zip) MAC procedure issues Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.0.0 1286 - F NR\_SmallData\_INACTIVE-Core

[R2-2205836](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205836.zip) UP procedure issues Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205940](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205940.zip) Stage-2 corrections for Small Data Transmission Huawei, HiSilicon draftCR Rel-17 38.300 17.0.0 F NR\_SmallData\_INACTIVE-Core

### 6.6.3 Control plane common aspects

A single CR with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur.

Big critical issues can be discussed in a contribution with CR in the appendix of the contribution

For quick online discussion on week1

[R2-2204532](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204532.zip) Corrections for paging-emergency SIBs-RRCRelease duriing SDT Samsung Electronics Co., Ltd draftCR Rel-17 38.300 17.0.0 NR\_SmallData\_INACTIVE-Core

- Vodafone is supportive of the CR

=> fix editorials

=> Agreeable with the changes above and merge in rapporteur CR

[R2-2206017](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206017.zip) Introduction of Small Data Transmission into 38.304 vivo CR Rel-17 38.304 17.0.0 0251 - B NR\_SmallData\_INACTIVE-Core

=> moved from 6.6.1

=> The CR is revised in [R2-2206065](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206065.zip)

[R2-2206065](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206065.zip) Alignment of DRX for Paging with RRC for SDT vivo CR Rel-17 38.304 17.0.0 0251 1 F NR\_SmallData\_INACTIVE-Core

=> moved from 6.6.1

- Intel would like to avoid impacting legacy behaviour text

- ZTE thinks that the CR doesn’t need to clarify the behaviour but rather reference 38.331. Ericsson also agrees that a reference is enough. Lenovo and Xiaomi are ok to reference to 38.331

- Nokia is good with the intention but doesn’t want to reference to a timer.

=> Reference 331 only and update wording accordingly

=> The CR is updated in R2-2206224

R2-2206224 Alignment of DRX for Paging with RRC for SDT vivo CR Rel-17 38.304 17.0.0 0251 1 F NR\_SmallData\_INACTIVE-Core

[email discussion]

T319a duration handling

[R2-2205244](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205244.zip) Remaining issues of SDT CP aspects Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

**Proposal 2: The longer value of T319a timer, i.e. 6s or above, is not supported.**

[R2-2205548](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205548.zip) Control plane open issues for SDT ZTE Corporation, Sanechips discussion Rel-17

Observation 1: The max value of T319a (4s) is smaller than the max value of the CG-SDT period (5.12s)

**Proposal 1: A note is captured in RRC to clarify that UE can delay the start of the T319a until the lower layers transmit the message including the CCCH payload**

Observation 2: The T319a still has a smaller maximum value than the maximum value of T319 and the subsequent time duration for which the UE may be in non-DRX mode for legacy resume case

**Proposal 2: RAN2 to consider extension of T319a to a maximum of 6sec.**

[R2-2205819](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205819.zip) [I511] T319a maximum range Intel Corporation, Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

*Observation 1. UE’s power consumption can drastically increase when using large values of T319a. In our understanding, the maximum value of T319a should be rather short.*

*Observation 2. Companies that prefer larger values of T319a (e.g. 6 or 10sec) aim to allow multiple UL/DL SDT exchanges during a given SDT session vs those that prefer smaller values of T319a (e.g. 1 or 2 sec) aim to reduce UE’s unnecessary power consumption.*

*Observation 3. Considering the concerns raised to the maximum range of T319a on UE’s power consumption and being able to exchange multiple UL/DL SDT during an SDT session, it could also be reconsidered defining T319a to be re-started with every reception and (re)transmission within a given SDT session instead of having to limit the length of a given SDT session.*

***Proposal 1. Define maximum range of T319a up to 3 seconds.***

Discussion

- Apple, Lenovo agrees with QC. ZTE, Vivo is ok with 4s.

- Ericsson thinks that it will help with error cases

- Vodafone sees the power saving benefit with 3s. ZTEs proposal doesn’t fix the problem and its better to keep the 6s.

- ZTE thinks that proposal 1 helps with the battery savings

- CATT thinks 6s is acceptable and proposal 1 from ZTE is not needed

- Huawei thinks that the current timer is fine and doesn’t need to be extended. Proposal 1 from ZTE is acceptable. QC also agrees with P1 and it is good to have such clarification.

- LG prefers maximum of 6s. Xiaomi, InterDigital, Samsung, Nokia is fine with 6s. InterDigital explains that we have the agreement to not restart the timer so we would need a larger timer.

- Nokia is not sure how P1 works as CCCH message can also be lost and network will be out of synch. ZTE acknowledges that it can happen and then you would retransmit and T319a will expire and it is anyways an error case.

- LG, InterDigital is also fine with P1 and Intel is fine with the intention but wants to ensure that it will work with current RACH.

- Samsung thinks that we can update P1 to apply this only for CG-SDT. LG is not sure how RRC would differentiate between the two. ZTE explains that it doesn’t know but it would be a note for UE implementation.

- Apple thinks that P1 should be general to other timers

- Vivo thinks P1 can be left to UE implementation

- Huawei thinks that if we go to larger timers we would need to rediscuss how we use the timer.

- Ericsson, InterDigital and LG really think that 6s is important for error cases and difference between 4s and 6s is negligible for battery savings. Nokia agrees. InterDigital thinks that operator can chose smaller value anyways.

- Apple thinks that if we go to 6s we should introduce a UE capability, as UE power is a concern. ZTE thinks that it could work. Qualcomm thinks that we already compromised to a large value. They would be ok with UE capabilities but we should revisit the short values.

- Intel thinks that UE can also be moving during the 6s and we would have more failures for SDT.

-

**Agreements**

1 Captured in RRC to clarify that UE can delay the start of the T319a until the lower layers transmit the message including the CCCH payload. FFS how it is captured and whether/how it is limited to CG-SDT

2 Baseline, max timer value is 4s. FFS if there is a compromise for 6s (i.e. have the restart mechanism or UE capability)

3 The UE doesn’t skip the UAC procedure

NAS issues

UAC skipping

[R2-2205221](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205221.zip) TP for the PDCP control PDU transmission and UAC with CG Type 1 Lenovo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

Proposal 4: The access attempt is considered as allowed if the pre-configured CG resources are configured for SDT and the arrival data corresponds to the configured SDT DRB/SRB.

=> Noted

[R2-2205670](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205670.zip) UAC operation during the CG-SDT procedure (RIL A006) Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

Proposal: Skip the UAC procedure if the RRC resume procedure is initiated for CG-SDT.

Discussion

- ZTE thinks that we shouldn’t skip as it is not only for radio conditions and there could be congestion in the network. NEC and large number of companies also agree with ZTE

=> Noted

Other NAS issues

[R2-2205043](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205043.zip) UAC upon non-SDT data arrival NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

Proposal 1: Upon arrival of non-SDT data, if requested by NAS layer, UAC procedure should be performed.

- Intel thinks that we with the current spec the UE wouldn’t do UAC and no agreement is needed

=> No change to existing spec is needed

Proposal 2: If the access attempt of the new non-SDT data is barred, the UE does not send UAI indicating arrival of non-SDT data to the network.

=> No change to existing spec is needed

[R2-2205354](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205354.zip) Discussion on the NAS aspects of Small Data Transmission Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

Proposal 1: When the UE is configured with SDT configuration, the NAS layer needs to indicate to the RRC layer whether the UL NAS message belongs to a non-time critical Type 1 NAS message category or to a time critical Type 2 NAS message category.

Proposal 2: Based on this indication from the UE NAS layer, the UE RRC layer shall decide whether it should initiate NAS message transfer using the SDT mechanism or initiate the legacy RRC Resume procedure and transition to RRC\_CONNECTED state before transmitting the NAS message.

Proposal 3: When the UE is configured with SDT configuration, time critical Type 2 NAS procedures should not be initiated using SDT Mechanism in RRC\_INACTIVE state as the SDT procedure will have to be terminated and the UE will have to be transitioned to RRC\_CONNECTED state in the middle of the NAS procedure followed by a RRCReconfiguration procedure which will cause additional delay that will not be acceptable for time critical call such as an emergency call

Proposal 4: RAN 2 to inform CT1 about the need of such indication as discussed in proposal above through a LS

*Discussion*

- Intel remembers that the discussion in the past it was concluded that we don’t specify the interaction and if there is a need it has to come from CT1. There was a lot of divergence in CT1 and conclusion that it was up to UE implementation. Qualcomm thinks that they thought that RAN2 should discuss any issues.

- Apple thinks that this is very difficult for RAN2 to discus it. Vivo also thinks that there was no consensus in CT1 so we should leave it to there. Vodafone agrees

- ZTE thinks that it is late at this stage to agree. Maybe we can have a little note that the UE is allow to not initiate an SDT in case there is emergency. ZTE explains that if emergency is configured in SRB2 then it may trigger SDT. Intel thinks that it is up to the UE to initiate SD. Nokia is ok with the note. Intel thinks that the initiation of SDT is relaxed and it can always decide what it does. Ericsson is ok with the note if srb2 configured for srb2.

- Huawei asks if we can send an LS to identify this scenario to CT1. Intel explains that we have send already 2 LSs to CT1

- LG asks if it is allowed for the UE to terminate the ongoing SDT procedure. ZTE confirms. QC explains that there is a penalty associated to it anchor relocation.

=> Noted

[R2-2204835](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204835.zip) [V534][V536] RRC Procedural Corrections for SDT vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2204972](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204972.zip) Further considerations upon reception of RRC Release CATT discussion NR\_SmallData\_INACTIVE-Core Late

[R2-2204984](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204984.zip) [H549] Correction for restoring the logical channel configuration from UE context Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3022 - F NR\_SmallData\_INACTIVE-Core

[R2-2204985](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2204985.zip) [H559] Correction for transitition to RRC\_CONNECTED for SDT Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3023 - F NR\_SmallData\_INACTIVE-Core

[R2-2205044](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205044.zip) [W002][W005] Control plane issues of SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205355](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205355.zip) [H562] Correction for internode message for SDT Huawei, HiSilicon CR Rel-17 38.331 17.0.0 3073 - F NR\_SmallData\_INACTIVE-Core

[R2-2205459](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205459.zip) RIL(X304) Clarification on the cell configured for CG-SDT Xiaomi Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205549](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205549.zip) SDT RRC Corrections ZTE Corporation (rapporteur) CR Rel-17 38.331 17.0.0 3100 - F NR\_SmallData\_INACTIVE-Core Late

[R2-2205551](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205551.zip) RRC RIL issue summary for SDT ZTE Corporation (rapporteur) report Late

[R2-2205590](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205590.zip) Actions on receiving indication of failure to perform SDT procedure Ericsson discussion Rel-17 38.331 NR\_SmallData\_INACTIVE-Core

[R2-2205668](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205668.zip) SDT related RIL Issues (RIL A000, A001, A002, A003, A004, A005,A007) Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205669](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205669.zip) SDT TAT related RIL Issue (RIL A019) Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205788](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205788.zip) SDT CP procedure issues Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

[R2-2205818](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205818.zip) [I503] Reception of RRCRelease for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205820](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205820.zip) [I505] Search space for pdcch-Config of CG-SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205821](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205821.zip) [I508] Introduction of SDT in resume procedure Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205822](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205822.zip) [506] Signaling allowed during SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205823](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205823.zip) [I507] Clarify the reference to “part of the UE configuration” in the procedural text Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205824](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205824.zip) [I512] [I010] SRS Positioning configuration provided for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2205825](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205825.zip) [I513] Clarification of SRB1 configuration used for SDT Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2206125](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206125.zip) Discussion on Need S versus Need R for some SDT fields (RIL: H551, H556) Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2206335](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206335.zip) Actions on receiving indication of failure to perform SDT procedure Ericsson discussion Rel-17 38.331 NR\_SmallData\_INACTIVE-Core

## 6.18 RACH indication and partitioning

Tdoc Limitation: 2 tdocs

Expected to cover WIs SDT, CovEnh, RedCap, RAN slicing. RA specific aspects from the different WI should be covered in this AI given the RA experts are all there.

### 6.18.1 Common signalling framework

A single CR with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big open issues can be discussed in a contributions with CR in the appendix of the contribution

R2-2206221 Summary of control plane issues Ericsson

Proposal 1

- Huawei thinks we shouldn’t call it RACH common and change the name to something more appropriate. Ericsson proposes additional RACH config?

Proposal 2 Delete the extension marker and the field laterThanRel17Features from FeatureCombination IE and use spare fields for future extendibility.

- Nokia asks if we would somehow define how we use the spares for future. Ericsson confirms that we just put them as spares and have possibility to extend in the future. Xiaomi prefers not to use any extension marker to the spare value. CATT explains that we need to discuss the number of spare values. Ericsson explains that the extension markers one IE above it makes it more complex.

Proposal 3 Add a non-critical extension (i.e., extension marker) in the FeatureCombinationPreambles IE.

Proposal 4 RAN2 to discuss whether to add msgA-RSRP-Threshold (without SSB suffix).

- Huawei explains that this is based on the SDT agreement that the threshold can be different. Vivo agrees with Huawei and if configured the UE should use this threshold. Maybe we need to also include the threshold for CE.

Proposal 5 RAN2 to discuss whether to allow partition-specific PUSCH resources.

- Huawei explains that this would be beneficial for SDT. Vivo and LG also agrees. Ericsson has a clarification that we can decided not to provide then we can use the general one provided

Proposal 6 Adopt the proposal in L019 but add an extension marker in IE FeatureSpecificParameters, rather than in the featureSpecificParameters-wrapper in this IE.

- LG doesn’t think we need 6

Proposal 8 Discuss addition of the fields feature-RA-PrioritizationForAccessIdentity-r17 and ra-PrioritizationForAccessIdentity-r16 and verify if it is clear how the UE selects.

- LG is not sure we need specific parameters for slicing and there is still discussions, prefer to come back after slicing discussion.

- Nokia indicates that RA prioritization can work independently without RA partitioning and will be configure for slice group ID and it is different from legacy prioritization. If we further introduce this then we have a clash.

Proposal 10 RAN2 to discuss RIL Z379 futher.

- ZTE questions the need for new IE, feature agnostic RACH resources that are not available for legacy UEs. Ericsson explains that this is needed anyways.

=> Noted

Agreement

1. Use SetupRelease-structure, similar to the legacy RACH config. And call the field/IEs "list" as they provide a list of additional RACH configurations. Update IE name accordingly
2. Delete the extension marker and the field laterThanRel17Features from FeatureCombination IE and use spare fields for future extendibility. FFS the number of spare values
3. Add a non-critical extension (i.e., extension marker) in the FeatureCombinationPreambles IE
4. Add msgA-RSRP-Threshold (without SSB suffix) in partition
5. Allow partition-specific msgA PUSCH resources. If not provided we use the general PUSCH
6. rsrp-ThresholdMsg3 is put in BWP-UplinkCommon, editor’s note is removed, and field description is added.
7. FFS pending slicing discussion - add fields feature-RA-PrioritizationForAccessIdentity-r17 and ra-PrioritizationForAccessIdentity-r16 and verify if it is clear how the UE selects. Ask question in email discussion for other non-slicing features
8. Change the name of the field "featureCombinationPreambles" to "featureCombinationPreamblesList"

[R2-2205469](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205469.zip) [C153] The extension solution with bit string for FeatureCombination CATT discussion Rel-17 NR\_cov\_enh-Core, NR\_slice-Core, NR\_SmallData\_INACTIVE-Core, NR\_redcap-Core Late

[R2-2205677](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205677.zip) Clarification on the RACH partition selection (RIL A022) Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

[R2-2206105](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206105.zip) Feature extension without using extension marker LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

[R2-2206126](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206126.zip) Miscellaneous corrections to RRC specifications for RACH partitioning (RIL: H538, H900, H901, H902) Huawei, HiSilicon draftCR Rel-17 38.331 17.0.0 F NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

[R2-2206127](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2206127.zip) Corrections on handling of per feature combination parameters (RIL: H535, H536, H542, H903, H904) Huawei, HiSilicon draftCR Rel-17 38.331 17.0.0 F NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

### 6.18.2 Common aspects of RACH procedure

A single CR with miscelaneous corrections is encouraged. Small editorial corrections should be sent directly to rapporteur. Big open issues can be discussed with contributions with CR in the appendix of the contribution

**Relation between resource selection in RA and SDT**

[R2-2205470](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205470.zip) Consideration on UP Remaining Issues of RACH common CATT discussion Rel-17 NR\_cov\_enh-Core, NR\_slice-Core, NR\_SmallData\_INACTIVE-Core, NR\_redcap-Core

Proposal 1: SUL selection in RA-SDT should be considered in the RACH common procedure.

[R2-2205942](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205942.zip) Correction to RACH procedure with SDT applicability Huawei, HiSilicon draftCR Rel-17 38.321 17.0.0 F NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

[R2-2205486](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205486.zip) Correction on fallback cases from CFRA to CBRA for RedCap UE LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

Proposal 1: Clarify in section 5.27.1 that UE selects Random Access resource according to 5.1.1b (instead of UE just checking the availability of RA-SDT resources), i.e. SDT is only initiated when the feature indication associated with the selected set of Random Access resources includes SDT.

Proposal 2: In 5.1.1, clarify that the selection of the set of Random Access resources takes place only in case they were not selected previously during SDT validity check.

General framework

[R2-2205876](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205876.zip) Feature Prioritization for RACH Partitioning Ericsson discussion Rel-17

[R2-2205553](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205553.zip) MAC Corrections for RACH partitioning ZTE Corporation (rapporteur) CR Rel-17 38.321 17.0.0 1273 - F NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core

[R2-2205839](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205839.zip) Introduction of RACH partitioning Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.0.0 0466 - F NR\_SmallData\_INACTIVE-Core

[R2-2205840](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205840.zip) RACH partitioning MAC issues Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.0.0 1288 - F NR\_SmallData\_INACTIVE-Core

[R2-2205941](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_118-e%5CDocs%5CR2-2205941.zip) Various corrections to MAC spec for RACH partitioning Huawei, HiSilicon draftCR Rel-17 38.321 17.0.0 F NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core