3GPP TSG-RAN WG2 Meeting #120 [R2-2xxxxxx](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2xxxxxx.zip)

Toulouse, France, November, 2022

Source: Session Chair (InterDigital)

Title: Report from Session on NES, UAV, Small Data, Rel-15-17 UP, Rel-17 Small Data, IIoT/URLLC, and RACH partitioning

**Email discussions:**

* [AT120][300] Organizational Diana – NES and UAV]

Scope:

* + - Share plans for the meetings and list of ongoing email discussions for the sessions related to Rel-17 URLLC/IIoT, Small data, RA Partitioning, R15-16 UP, Rel-18 UAV and NES
		- Share meetings notes and agreements for review and endorsement
* [PRE1120][301][NES] Summary of DTX/DRX – 8.3.2 (InterDigital)
* [PRE1120][302][NES] Summary of SSB/SIBless/Paging – 8.3.3 (Ericsson)
* [PRE1120][303][NES] Summary of Cell Selection/Reselection – 8.3.4 (Apple)
* [PRE1120][304][NES] Summary of Connected Mode Mobility – 8.3.5 (Nokia)
* [PRE1120][305][NES] Summary of Others – 8.3.6 (Huawei)

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 10 tdocs in total for all sub agenda items.

### 5.1.2 User Plane corrections

User Plane corrections will be handled in a break out session

[R2-2212117](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212117.zip) Alignment of procedural text for PDCP control PDU handling Huawei, HiSilicon CR Rel-17 38.323 17.2.0 0107 - A NR\_newRAT-Core

[R2-2212118](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212118.zip) Alignment of procedural text for PDCP control PDU handling Huawei, HiSilicon CR Rel-16 38.323 16.7.0 0108 - A NR\_newRAT-Core

[R2-2212119](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212119.zip) Alignment of procedural text for PDCP control PDU handling Huawei, HiSilicon CR Rel-15 38.323 15.8.0 0109 - F NR\_newRAT-Core

#### 5.1.2.1 MAC

[R2-2212138](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212138.zip) Clarification on HARQ buffers flushing Samsung R&D Institute India CR Rel-15 38.321 15.13.0 1485 - F NR\_newRAT-Core

[R2-2212140](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212140.zip) Clarification on HARQ buffers flushing Samsung R&D Institute India CR Rel-16 38.321 16.10.0 1486 - A NR\_newRAT-Core

[R2-2212141](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212141.zip) Clarification on HARQ buffers flushing Samsung R&D Institute India CR Rel-17 38.321 17.2.0 1487 - A NR\_newRAT-Core

[R2-2212860](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212860.zip) Correction on Type 1 CG occasion determination at BWP activation Samsung CR Rel-16 38.321 16.10.0 1496 - F NR\_IIOT-Core, 5G\_V2X\_NRSL-Core

[R2-2212861](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212861.zip) Correction on Type 1 CG occasion determination at BWP activation Samsung CR Rel-17 38.321 17.2.0 1497 - A NR\_IIOT-Core, 5G\_V2X\_NRSL-Core

[R2-2212862](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212862.zip) Correction to avoid overwriting of MAC PDU in AutonomousTx Samsung CR Rel-16 38.321 16.10.0 1498 - F NR\_IIOT-Core

[R2-2212863](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212863.zip) Correction to avoid overwriting of MAC PDU in AutonomousTx Samsung CR Rel-17 38.321 17.2.0 1499 - A NR\_IIOT-Core

#### 5.1.2.2 RLC PDCP SDAP BAP

[R2-2212761](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212761.zip) Data volume calculation LG Electronics Inc. CR Rel-16 38.323 16.7.0 0110 - F NR\_Mob\_enh-Core

[R2-2212762](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212762.zip) Data volume calculation LG Electronics Inc. CR Rel-17 38.323 17.2.0 0111 - A NR\_Mob\_enh-Core

# 6 NR Rel-17

## 6.0 General

This AI covers corrections to all NR Rel-17 Work Items, but shall only be used for aspects that does not fit under other more specific AIs, e.g. multi-WI aspects.

### 6.0.3 User Plane related aspects

E.g. cross WI coordination on MAC CEs.

This AI will be handled in a break-out session.

[R2-2211447](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211447.zip) Discussion on EHC for DAPS CATT, CMCC discussion Rel-17 NR\_Mob\_enh-Core, NR\_IIOT-Core

[R2-2211448](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211448.zip) CR to 38.331 on Configuration EHC for DAPS CATT, CMCC CR Rel-17 38.331 17.2.0 3601 - F NR\_Mob\_enh-Core, NR\_IIOT-Core

[R2-2211449](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211449.zip) CR to 38.323 on Configuration EHC for DAPS CATT, CMCC CR Rel-17 38.323 17.2.0 0106 - F NR\_Mob\_enh-Core, NR\_IIOT-Core

## 6.5 NR IIoT URLLC

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

Tdoc Limitation: 2 tdocs

### 6.5.1 Organizational

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

### 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

[R2-2211552](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211552.zip) Correction to PDC in RRC Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3614 - F 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

[R2-2211722](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211722.zip) Discussion on CG timer aspects Apple discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2211723](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211723.zip) Clarification for a DG overruling a CG Apple CR Rel-17 38.321 17.2.0 1471 - F NR\_IIOT\_URLLC\_enh-Core

## 6.6 Small Data enhancements

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

Tdoc Limitation: 2 tdocs

[R2-2211104](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211104.zip) Reply LS on common search space for small data transmission (R1-2208107; contact: ZTE) RAN1 LS in Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN2

### 6.6.1 Organizational

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

[R2-2211263](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211263.zip) Correction to MAC spec for Small Data Transmission Huawei, HiSilicon, Google CR Rel-17 38.321 17.2.0 1451 - F NR\_SmallData\_INACTIVE-Core

[R2-2212874](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212874.zip) Correction for SDT Stage-2 Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.2.0 0595 - F NR\_SmallData\_INACTIVE-Core

### 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

**2-stepRA for TA expiry during subsequent CG-SDT**

[R2-2211174](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211174.zip) Corrections for RA during CG-SDT procedure Samsung Electronics Co., Ltd draftCR Rel-17 38.321 17.2.0 NR\_SmallData\_INACTIVE-Core

**Initial CG-SDT transmission without CG-SDT-RT**

[R2-2211265](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211265.zip) Correction to CG-SDT without retransmission timer Huawei, HiSilicon CR Rel-17 38.321 17.2.0 1452 - F NR\_SmallData\_INACTIVE-Core

**SSB evalation with REDCAP separate BWP for CG-SDT**

[R2-2212200](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212200.zip) Discussion the SSB evaluation in CG-SDT for RedCap UE Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2212201](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212201.zip) Correction on SSB evaluation in CG-SDT for RedCap UE Qualcomm Incorporated CR Rel-17 38.321 17.2.0 1488 - F NR\_SmallData\_INACTIVE-Core

**Beam failure handling for RA-SDT**

[R2-2212876](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212876.zip) Correction for beam failure issue with RA-SDT Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1500 - F NR\_SmallData\_INACTIVE-Core

**To be discussed offline by rapporter**

[R2-2211175](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211175.zip) Miscellaneous Corrections for SDT operation Samsung Electronics Co., Ltd draftCR Rel-17 38.321 17.2.0 NR\_SmallData\_INACTIVE-Core

[R2-2211469](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211469.zip) Bj Parameter and time T Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2211649](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211649.zip) MAC Correction on SDT for RedCap UE vivo Mobile Com. (Chongqing) CR Rel-17 38.321 17.2.0 1468 - F NR\_SmallData\_INACTIVE-Core, NR\_redcap-Core

[R2-2211882](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211882.zip) Corrections on RNTI usage for SDT NEC draftCR Rel-17 38.321 17.2.0 F NR\_SmallData\_INACTIVE-Core

[R2-2212875](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212875.zip) Beam failure issue with RA-SDT Nokia, Nokia Shanghai Bell discussion Rel-17 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

**SDT over unlicensed spectrum**

[R2-2211470](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211470.zip) On HARQ process offset Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2212194](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212194.zip) HARQ process offset configuration and repetition capability for SDT Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

**Clarification discussions**

[R2-2212578](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212578.zip) CR for clarification for SDT on NR-U LG Electronics Inc. CR Rel-17 38.321 17.2.0 1492 - F NR\_SmallData\_INACTIVE-Core

[R2-2211523](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211523.zip) RRC corrections for SDT ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3608 - F NR\_SmallData\_INACTIVE-Core

**Use case for the MO configuration in RRCRelease needs discussion**

[R2-2211264](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211264.zip) Correction to RSRP-based TA validation Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3575 - F NR\_SmallData\_INACTIVE-Core

**These remaining papers can be sent to offline**

[R2-2211627](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211627.zip) Correction on when to consider SDT procedure is not ongoing CATT CR Rel-17 38.331 17.2.0 3623 - F NR\_SmallData\_INACTIVE-Core

[R2-2211659](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211659.zip) Clarification on CG-SDT-Configuration vivo Mobile Com. (Chongqing) CR Rel-17 38.331 17.2.0 3628 - F NR\_SmallData\_INACTIVE-Core

[R2-2211883](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211883.zip) Control plane corrections for SDT NEC draftCR Rel-17 38.331 17.2.0 F NR\_SmallData\_INACTIVE-Core

[R2-2212719](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212719.zip) Correction on L2 handling of SDT in RRCReject MediaTek Inc. CR Rel-17 38.331 17.2.0 3726 - F NR\_SmallData\_INACTIVE-Core

[R2-2212786](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212786.zip) Clarification on RRC re-establishment for SDT failure cases LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

[R2-2212578](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212578.zip) CR for clarification for SDT on NR-U LG Electronics Inc. CR Rel-17 38.321 17.2.0 1492 - F NR\_SmallData\_INACTIVE-Core

=> Withdrawn

## 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

[R2-2212196](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212196.zip) RRC corrections to common RACH framework Huawei, HiSilicon draftCR Rel-17 38.331 17.2.0 F NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core

[R2-2212197](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212197.zip) Clarification on RACH configuration on RedCap specific BWP Huawei, HiSilicon CR Rel-17 38.300 17.2.0 0585 - F NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core

moved from 8.18.1

[R2-2212417](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212417.zip) Correction of Cond AdditionalRACH-AndRedCap Ericsson CR Rel-17 38.331 17.2.0 3698 - 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

[R2-2212878](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212878.zip) Correction for RACH partitioning features Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1501 - F NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

[R2-2212879](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212879.zip) Corrections on BWP handling for RACH partitioning Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1502 - F NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

# 8 Rel-18

## 8.3 Network energy savings for NR

(xx-Core; leading WG: RAN1; REL-18; WID: RP-213554)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

All contributions should have accompanying TP for each proposed solutions and identified RAN2 impact. All contributions should focus on the RAN2 impacts needed to be captured in TR and benefit of the solutions proposed.

### 8.3.1 Organizational

LS, workplan, email discussion etc

[R2-2211159](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211159.zip) LS on Cell DTX/DRX for NR network energy savings (R3-226002; contact: Huawei) RAN3 LS in Rel-18 FS\_Netw\_Energy\_NR To:RAN1 Cc:RAN2

[R2-2211427](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211427.zip) TP on cell selection/reselection and SSB/SIB-less Huawei, HiSilicon pCR Rel-18 38.864 0.1.0 FS\_Netw\_Energy\_NR

[R2-2211428](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211428.zip) Report of [POST119bis][304][NES] TP on cell selection/reselection and SSB/SIB-less (Huawei) Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212825](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212825.zip) Work plan for NR network energy savings Huawei, HiSilicon Work Plan Rel-18 FS\_Netw\_Energy\_NR

[R2-2212868](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212868.zip) Latest TR 38.864 v0.4.0 for information Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

### 8.3.2 DTX/DRX mechanism

Contributions should focus on further details and open issues for DTX/DRX, including RAN2 impacts and benefits.

[R2-2213071](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2213071.zip)

[R2-2211443](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211443.zip) Remaining issues on Cell DTX/DRX CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211586](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211586.zip) NES Network DTX and DRX Mechanism Qualcomm Incorporated discussion Rel-18

[R2-2211664](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211664.zip) discussion on cell DTX/DRX vivo discussion Rel-18

[R2-2211679](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211679.zip) Further discussion on Cell DTX / DRX Apple discussion FS\_Netw\_Energy\_NR

[R2-2211774](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211774.zip) Further details on Cell DTX/DRX Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_XR\_enh

[R2-2211920](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211920.zip) Discussion on idle and inactive state UE grouping for NES gNB DTX Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211953](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211953.zip) Discussion on DTX/DRX mechanism OPPO discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212058](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212058.zip) Discussion on DTX/DRX for NES Samsung discussion Rel-18

[R2-2212113](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212113.zip) Considerations of Cell DTX and DRX Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212182](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212182.zip) Supporting multiple DTX configuration ZTE Corporation, Sanechips discussion

[R2-2212314](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212314.zip) Further aspects on Cell DTX/DRX Ericsson discussion

[R2-2212324](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212324.zip) Cell DTX/DRX InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212569](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212569.zip) Cell DTX/DRX related issues ETRI discussion

[R2-2212792](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212792.zip) Assistance information for NW DTX/DRX NTT DOCOMO INC. discussion Rel-18

[R2-2212840](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212840.zip) Recommendations for DTX/DRX mechanism MediaTek Inc. discussion Rel-18

[R2-2212851](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212851.zip) Discussion on DTX/DRX mechanism LG Electronics Inc. discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212869](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212869.zip) Discussion on cell DTX Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR Late

### 8.3.3 SSB/SIB-less/paging

Contributions should focus on further details and open issues for SSB/SIB-less/paging solutions, including RAN2 impacts and benefits.

[R2-2213072](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2213072.zip)

[R2-2211444](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211444.zip) Further Considerations on NES Cell without SIB CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211589](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211589.zip) NES SIB-less and SSB-less Techniques Qualcomm Incorporated discussion Rel-18

[R2-2211665](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211665.zip) discussion on SSB/SIB-less/paging vivo discussion Rel-18

[R2-2211680](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211680.zip) Discussion and comparison of SSB-less and SIB-less solutions Apple discussion FS\_Netw\_Energy\_NR

[R2-2211826](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211826.zip) Discussions on common signal-less solutions for NES Fujitsu discussion Rel-18 FS\_Netw\_Energy\_NR Withdrawn

[R2-2211845](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211845.zip) Discussions on common signal-less solutions for NES Fujitsu discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211954](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211954.zip) Discussion on SSB/SIB-less OPPO discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211966](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211966.zip) SSB and Paging for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212059](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212059.zip) Discussion on SSB/SIB-less Solutions for NES Samsung discussion Rel-18

[R2-2212114](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212114.zip) Considerations of SIBless cell with or without SSB Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212181](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212181.zip) Supporting access via NES cell ZTE Corporation, Sanechips discussion

[R2-2212312](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212312.zip) Discussion on SSB-less and SIB-less cell LG Electronics Inc. discussion Rel-18

[R2-2212327](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212327.zip) SSB/SIB-less cell operation InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212387](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212387.zip) SIB-less, SSB-less and paging enhancements Ericsson discussion

[R2-2212634](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212634.zip) Discussion on SSB/SIB1/Paging-less NES solution CMCC discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212720](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212720.zip) Considerations on SSB/SIB-less solutions for NW energy saving KDDI Corporation discussion

[R2-2212841](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212841.zip) Recommendations for SSB/SIB1-less techniques MediaTek Inc. discussion Rel-18

[R2-2212870](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212870.zip) Discussion on SIB-less techniques Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

### 8.3.4 Cell selection/re-selection

Contributions should focus on further details and open issues for cell selection/reselection, including RAN2 impacts and benefits.

[R2-2212971](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212971.zip)

[R2-2211445](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211445.zip) Remaining Issues on Cell Selection/Reselection CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211591](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211591.zip) Cell Selection and Reselection NES Techniques Qualcomm Incorporated discussion Rel-18

[R2-2211666](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211666.zip) discussion on cell selection/reselection vivo discussion Rel-18

[R2-2211681](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211681.zip) Further discussion on cell (re)selection enhancement for Network energy saving Apple discussion FS\_Netw\_Energy\_NR

[R2-2211955](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211955.zip) Discussion on cell selection/reselection OPPO discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211967](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211967.zip) Cell reselection and access control for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212053](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212053.zip) Cell selection/re-selection in NES Lenovo discussion Rel-18

[R2-2212060](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212060.zip) Discussion on Cell Selection and Reselection for NES Samsung discussion Rel-18

[R2-2212116](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212116.zip) Cell (re)selection for handling legacy UEs and NES capable Ues Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212183](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212183.zip) Consideration on cell selection and reselection related to NES for NR ZTE Corporation, Sanechips discussion

[R2-2212315](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212315.zip) Handling of NES capable and not capable UEs on EE Cell Ericsson discussion

[R2-2212325](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212325.zip) NES cell selection and resection aspects InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212796](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212796.zip) Assistance information for cell reselection NTT DOCOMO INC. discussion Rel-18

[R2-2212867](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212867.zip) Energy Saving from RRC Idle Operation Lenovo discussion FS\_Netw\_Energy\_NR

[R2-2212871](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212871.zip) Discussion on cell selection/reselection for NES Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212919](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212919.zip) Access restriction and cell reselection LG Electronics discussion Rel-18

### 8.3.5 Connected mode mobility

Contributions should focus on the need of mobility enhancements, including CHO and group mobilitiy. Proposed enhacments should be properly explained and have accompanying TPs.

[R2-2213072](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2213072.zip)

[R2-2211446](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211446.zip) Consideration on mobility enhancements CATT discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211602](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211602.zip) NES Connected mode mobility Qualcomm Incorporated discussion Rel-18

[R2-2211682](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211682.zip) Further discussion on mobility enhancement for Network energy saving Apple discussion FS\_Netw\_Energy\_NR

[R2-2211921](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211921.zip) Handover enhancement for NES Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211968](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211968.zip) Moiblity enhancements for NES Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212054](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212054.zip) NES impact to UE mobility Lenovo discussion Rel-18

[R2-2212115](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212115.zip) Further considerations of group handover Intel Corporation discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212273](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212273.zip) CHO improvements for Network Energy Savings Vodafone GmbH discussion Rel-18

[R2-2212326](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212326.zip) NES mobility aspects InterDigital discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212393](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212393.zip) Group handover for NW energy savings Ericsson discussion

[R2-2212641](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212641.zip) Consideration on group mobility for network energy saving Fujitsu Limited discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212823](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212823.zip) Connected mode mobility LG Electronics Finland discussion Rel-18

[R2-2212872](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212872.zip) Discussion on connected mode mobility for NES Huawei, HiSilicon discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212930](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212930.zip) Group Handover for NES Rakuten Mobile, Inc discussion Rel-18

### 8.3.6 Others

Contributions on remaining solutions not above, including cell wake-up signal, resource adapation, BWP adaptation, NES state determination and signaling, etc. Focus on these contributions should be on RAN2 impact and feasibility.

General UE assistance contributions will be deprioritized. Specific UE assistance aspects relating to the identified solutions can be proposed as part of other contributions.

[R2-2212969](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212969.zip)

[R2-2211667](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211667.zip) discussion on UE WUS and TP for TR vivo discussion Rel-18

[R2-2211922](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211922.zip) UE wake-up request signal Sony discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2211956](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211956.zip) Discussion on the UE assistance information OPPO, Apple discussion Rel-18 FS\_Netw\_Energy\_NR

[R2-2212055](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212055.zip) Discussion on supporting of NES Lenovo discussion Rel-18

[R2-2212061](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212061.zip) BWP Adaptation for NES Samsung discussion Rel-18

[R2-2212110](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212110.zip) Impacts of SSB/SIB1 adaptations and their mitigation Fraunhofer IIS discussion FS\_Netw\_Energy\_NR

[R2-2212184](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212184.zip) Techniques in various domains and UE assistance information for NES ZTE Corporation, Sanechips discussion

[R2-2212383](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212383.zip) Discussion on Wake Up Signalling and paging-less NES cells NEC Telecom MODUS Ltd. discussion

[R2-2212842](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212842.zip) Recommendations for network energy saving techniques MediaTek Inc. discussion Rel-18

## 8.8 NR support for UAV

(xx-Core; leading WG: RAN1; REL-18; WID: RP-213600)

Time budget: 0.5 TU

Tdoc Limitation: 2

### 8.8.1 Organizational

[R2-2212266](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212266.zip) Uncrewed Aerial Vehicles in Rel-18 - Updated Workplan Nokia, Nokia Shanghai Bell Work Plan Rel-18 NR\_UAV-Core

[R2-2212267](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212267.zip) SA2 Status for Uncrewed Aerial Vehicles in Rel-18 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

### 8.8.2 Measurement reporting

Contributions should focus on enhancement to measurement reports, for example UE-triggered measurement report based on configured height thresholds, Reporting of height, location and speed in measurement report, Flight path reporting, Measurement reporting based on a configured number of cells (i.e. larger than one) fulfilling the triggering criteria simultaneously

Note: Work done in LTE is a starting point for this objective. NR-specific enhancements can be considered, if needed, while overall the LTE and NR solutions should be harmonized as much as possible.

[R2-2212340](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212340.zip) Flight path reporting for UAV InterDigital discussion Rel-18 NR\_UAV-Core

*Proposal 1: A waypoint is a planned location for the UE along the flight path and is described via the existing parameter type LocationCoordinates defined in TS 37.355.*

*Proposal 2: A timestamp provides the UTC time when the associated waypoint is valid.*

*Proposal 3: No requirements are placed on spatial distribution of waypoints.*

*Proposal 4: A UE indicates whether flight plan information is available within the RRCReconfigurationComplete, RRCReestablishmentComplete, RRCResumeComplete, or RRCSetupComplete message*

*Proposal 5: Flight path reporting uses the UE Information request/response procedure as baseline.*

*Proposal 6: UE does not autonomously report an updated flight path. The UE indicates the previously reported flight path is outdated, and the network can request an updated flight path via the UE Information Request procedure.*

[R2-2212736](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212736.zip) Consideration on flight path reporting of NR support for UAV DENSO CORPORATION discussion NR\_UAV-Core

*Proposal 3: Allow UE to initiate the flight path report procedure by using existing UE initiated signalling (e.g. UEAssistanceInformation). The following options could be considered:*

*Option 1: Include the indication of the flight path availability in the UE initiated message. Then, reuse legacy procedure of flight path report.*

*Option 2: Include the flight path itself directly in the UE initiated message.*

[R2-2211766](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211766.zip) On measurement reporting enhancements in NR UAV Samsung Electronics Co., Ltd discussion Rel-18 NR\_UAV-Core

*Proposal 9: RAN2 to discuss whether the following cases are considered for flight path update:*

*- Case 1: Flight path update due to the changed waypoint and/or timestampt*

*- Case 2: Flight path update due to the outdated (passed) waypoint.*

[R2-2212269](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212269.zip) On Flight Path Plan (FPP) for UAVs – Role, Content and Reporting Aspects Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

*Proposal 2: The maximum number of waypoints within flight path plan is left FFS.*

Parameter Scaling

[R2-2211820](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211820.zip) Discussion on measurement reporting enhancement for NR UAV vivo discussion Rel-18 NR\_UAV

Proposal 5 Scaling of RRM parameters, such as to shorten TTT is not necessary for UAV UE mobility optimization.

[R2-2212638](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212638.zip) Further discussion on UAV measurement enhancements Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

*Proposal 6: A height adaptive TTT should be considered for NR UAV.*

*Proposal 9: The UE sends the MR to the NW only when the cell which is leaving the cellsTriggeredList, has been reported to the NW beforehand.*

[R2-2211738](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211738.zip) Measurement reporting enhancement in UAV Apple discussion Rel-18 NR\_UAV

*Proposal 2: Apply numberOfTriggeringCells for inter-RAT events (i.e. B1 and B2 triggering).*

*Proposal 3: Consider a combined numberOfTriggeringCells on multiple measurement objects.*

[R2-2211190](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211190.zip) Measurement Enhancement for UAV OPPO discussion Rel-18

[R2-2211305](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211305.zip) Measurement and reporting enhancements Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core

[R2-2211404](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211404.zip) Discussion on reducing measurement reporting and flight path update for UAV Intel Corporation discussion Rel-18 NR\_UAV-Core

[R2-2211452](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211452.zip) Considerations on Measurement Reports Enhancements NEC Europe Ltd discussion Rel-18 NR\_UAV-Core

[R2-2211739](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211739.zip) User consent on UAV Apple discussion Rel-18 NR\_UAV

[R2-2211798](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211798.zip) Further consideration on measurement reporting for NR UAV ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2211819](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211819.zip) Discussion on flight path reporting for NR UAV vivo discussion Rel-18 NR\_UAV

[R2-2211931](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211931.zip) Considerations about UAV mobility and user consent Sony discussion Rel-18 NR\_UAV

[R2-2211996](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211996.zip) Further discussion on NR support for UAV NTT DOCOMO, INC. discussion Rel-18

[R2-2212019](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212019.zip) Measurement enhancement for NR UAV Lenovo discussion Rel-18

[R2-2212145](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212145.zip) Measurement Reporting for NR UAV CATT discussion Rel-18 NR\_UAV-Core

[R2-2212268](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212268.zip) On Measurement Related Aspects for UAV UEs Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_UAV-Core

[R2-2212616](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212616.zip) Measurement Reporting for NR UAV CMCC discussion Rel-18 NR\_UAV-Core

[R2-2212657](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212657.zip) Discussion on measurement reporting for NR UAV Xiaomi discussion Rel-18 NR\_UAV-Core

[R2-2212669](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212669.zip) Discussion on measurement reporting for NR UAV Sharp discussion

[R2-2212800](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212800.zip) Discussion on flight path reporting for NR UAV China Telecom discussion

[R2-2212824](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212824.zip) Measurement Report Enhancement LG Electronics Finland discussion Rel-18

[R2-2212846](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212846.zip) Flight path information report Enhancement LG Electronics Finland discussion Rel-18

[R2-2212900](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212900.zip) Flight path reporting and UAV measurement reports Ericsson discussion Rel-18 NR\_UAV-Core

[R2-2212933](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212933.zip) Further discussion on NR support for UAV NTT DOCOMO, INC. discussion Rel-18

### 8.8.3 Subscription-based aerial-UE identification

Contributions should focus on signaling required to support subscription-based aerial-UE identification

Note: Work done in LTE is a starting point for this objective. NR-specific enhancements can be considered, if needed, while overall the LTE and NR solutions should be harmonized as much as possible.

[R2-2211191](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211191.zip) Subscription-based aerial-UE identification OPPO discussion Rel-18 [R2-2209419](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2209419.zip)

[R2-2211306](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211306.zip) Enhancements for subscription-based aerial-UE identification Qualcomm Incorporated discussion Rel-18 NR\_UAV-Core [R2-2209447](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2209447.zip)

[R2-2211453](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211453.zip) Considerations on Subscription-based Identification for NR UAV NEC Europe Ltd discussion Rel-18 NR\_UAV-Core

[R2-2211651](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211651.zip) Discussion on subscription-based aerial-UE identification for NR UAV Samsung Electronics Co., Ltd discussion Rel-18 NR\_UAV-Core [R2-2210739](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2210739.zip)

[R2-2211799](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211799.zip) On subscription based identification for NR UAV ZTE Corporation, Sanechips discussion Rel-18 NR\_UAV-Core

[R2-2212146](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212146.zip) Subscription-based Aerial-UE Identification for NR CATT discussion Rel-18 NR\_UAV-Core

[R2-2212513](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212513.zip) UAV Sub.UE Identification and identity broadcast Beijing Xiaomi Mobile Software discussion Rel-18 NR\_UAV-Core

[R2-2212617](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212617.zip) Subscription-based aerial-UE identification for NR UAV CMCC discussion Rel-18 NR\_UAV-Core

[R2-2212639](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212639.zip) Discussion on subscription-based UAV identification Huawei, HiSilicon discussion Rel-18 NR\_UAV-Core

[R2-2212898](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212898.zip) Subscription-based aerial UEs identification Ericsson discussion Rel-18 NR\_UAV-Core

### 8.8.4 UAV identification broadcast

Study and specify, if needed, enhancements for UAV identification broadcast

NOTE: This Agenda Item will not be treated in this meeting

[R2-2211125](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211125.zip) OG0022\_LS-MITRE-Engenuity Open Generation DAA input\_PC5\_DAA\_RID\_PRS OG0022 (contact: vivo) MITRE Engenuity Open Generation 5G Consortium LS in NR\_UAV-Core To:SA2 Cc:RAN2

[R2-2211932](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211932.zip) UAV identification broadcast Sony discussion Rel-18 NR\_UAV

[R2-2212020](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212020.zip) Discussion on broadcasting remote id for UAV Lenovo discussion Rel-18

## 8.18 Mobile Terminated Small Data Transmission

(NR\_NR\_MT\_SDT-Core; leading WG: RAN2; REL-18; WID: RP-213583)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdoc

R2-2211134 LS on Time Synchronization Status notification towards UE(s) (S2-2209876; contact: Nokia) SA2 LS in Rel-18 FS\_5TRS\_URLLC To:RAN2, RAN3, SA3 Cc:RAN1

### 8.18.1 Organizational

LS ins. Rapporteur input.

[R2-2211531](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211531.zip) Work plan for the MT-SDT WI ZTE Corporation, Sanechips Work Plan

### 8.18.2 General

*Contributions on support for paging-triggered SDT, including triggering and procedures.*

*Note: Data transmission in DL within paging message is not in scope of this WI.*

**Triggering**

 [R2-2211732](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211732.zip) Discussion on MT-SDT Apple discussion Rel-18 NR\_MT\_SDT-Core

Proposal 2: For RAN paging for MT-SDT purpose, MT-SDT indication is explicitly included in the corresponding PagingRecord.

 Proposal 3: Upon receiving RAN paging for MT-SDT purpose, UE can initiate the MT-SDT procedure only when the current radio quality is good (e.g. RSRP > threshold).

**Overall procedure**

[R2-2211471](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211471.zip) MT-SDT Baseline Ericsson discussion Rel-18 NR\_MT\_SDT-Core

Proposal 3 UE uses legacy random access resources for accessing the network for an MT-SDT transfer.

[R2-2211532](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211532.zip) MT-SDT procedure ZTE Corporation, Sanechips discussion

Proposal 5: No new resume cause is needed for MT-SDT (i.e., the UE reuses mt-Access as the resume cause)

[R2-2211867](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211867.zip) Initial considerations on MT-SDT OPPO discussion Rel-18 NR\_MT\_SDT-Core

Proposal 5  In response to the paging with MT-SDT indication, UE initiates RRC resume procedure and follows the same RRC behaviours as MO-SDT.

Proposal 6 New resume cause is introduced for MT-SDT in order to inform NW that UE is ready for DL data/signalling reception.

**Other aspects to consider**

[R2-2212199](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212199.zip) Discussion on MT-SDT Qualcomm Incorporated discussion NR\_MT\_SDT-Core

[R2-2211176](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211176.zip) Mobile Terminated Small Data Transmission in RRC\_INACTIVE Samsung Electronics Co., Ltd discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211249](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211249.zip) Supporting Mobile Terminated Small Data Transmission in RRC\_INACTIVE vivo Mobile Com. (Chongqing) discussion Rel-18 NR\_MT\_SDT-Core Late

[R2-2211283](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211283.zip) Discussion on MT-Small Data Transmission T-Mobile USA Inc. discussion Rel-18 Late

[R2-2211295](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211295.zip) Discussion on paging triggered SDT SHARP Corporation discussion NR\_MT\_SDT-Core

[R2-2211471](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211471.zip) MT-SDT Baseline Ericsson discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211532](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211532.zip) MT-SDT procedure ZTE Corporation, Sanechips discussion

[R2-2211732](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211732.zip) Discussion on MT-SDT Apple discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211885](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211885.zip) Initial consideration on MT-SDT NEC discussion Rel-18 NR\_MT\_SDT-Core

[R2-2211940](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211940.zip) DL SDT triggering and procedures Sony discussion Rel-18 NR\_MT\_SDT

[R2-2211982](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211982.zip) Procedures for MT SDT Xiaomi discussion Rel-18 NR\_MT\_SDT

[R2-2212010](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212010.zip) Discussion on Mobile Terminated Small Data Transmission CATT discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212120](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212120.zip) Discussion on the MT-SDT procedure Lenovo discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212162](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212162.zip) Discussion on general procedure for MT-SDT Spreadtrum Communications discussion Rel-18

[R2-2212186](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212186.zip) MT-SDT mechanism Intel Corporation discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212195](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212195.zip) MT-SDT design principles Huawei, HiSilicon discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212328](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212328.zip) Mobile terminated SDT InterDigital discussion Rel-18 NR\_MT\_SDT-Core

R2-2212382 MT-SDT procedure Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212581](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212581.zip) Discussion on MT-SDT LG Electronics Inc. discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212701](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212701.zip) Discussion on MT-SDT CMCC discussion Rel-18 NR\_MT\_SDT-Core

[R2-2212798](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212798.zip) Mobile-terminated small data transmission China Telecom discussion

[R2-2212839](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212839.zip) Stage-2 discussion on MT-SDT procedure MediaTek Inc. discussion Rel-18 NR\_MT\_SDT-Core

## 8.19 R18 Other

Misc Impacts from Other RAN WGs and TSGs (incl MC Enhancements). LS ins for Rel-18 topics that has no RAN WI.

Time budget: 0.5 TU

Tdoc Limitation: -

URLLC R18

Low Latency

[R2-2211123](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211123.zip) LS on RAN feedback for low latency (S2-2201767; contact: Huawei) SA2 LS in Rel-18 FS\_5TRS\_URLLC To:RAN2 Cc:RAN1, RAN3

=> Noted from last meeting

UL scenario of reactive RAN feedback for burst sending time adjustment

[R2-2211135](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211135.zip) LS on UL scenario of reactive RAN feedback for burst sending time adjustment (S2-2209879; contact: Huawei) SA2 LS in Rel-18 FS\_5TRS\_URLLC To:RAN2 Cc:RAN3

[R2-2211557](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211557.zip) Discussion on reactive RAN feedback for burst sending time adjustment Huawei, HiSilicon discussion Rel-18

[R2-2211558](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211558.zip) Draft Reply LS on UL scenario of reactive RAN feedback for burst sending time adjustment Huawei, HiSilicon Rel-18 LS out Rel-18 FS\_5TRS\_URLLC To:SA2 Cc:RAN3

[R2-2211779](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211779.zip) Discussion on SA2 LS on UL scenario of reactive RAN feedback for burst sending time adjustment Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_5TRS\_URLLC

[R2-2212419](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212419.zip) Discussion on reactive RAN feedback for burst sending time adjustment Ericsson discussion Rel-18

[R2-2212478](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212478.zip) Discussion of SA2 LS on RAN UL burst sending time adjustment Qualcomm Incorporated discussion Rel-18

Time Synchronization Status notification towards UE(s)

[R2-2211134](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211134.zip) LS on Time Synchronization Status notification towards UE(s) (S2-2209876; contact: Nokia) SA2 LS in Rel-18 FS\_5TRS\_URLLC To:RAN2, RAN3, SA3 Cc:RAN1

[R2-2211777](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211777.zip) Discussion on SA2 LS on Time Synchronization Status notification towards UE(s) Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_5TRS\_URLLC

[R2-2211778](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211778.zip) Draft LS response on 5GS time synchronization status report towards UE(s) Nokia, Nokia Shanghai Bell LS out Rel-18 FS\_5TRS\_URLLC To:SA2

[R2-2211994](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211994.zip) Consideration on Time Synchronization Status notification towards UE(s) ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion NR\_IIOT\_URLLC\_enh-Core

[R2-2212480](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212480.zip) Discussion of SA2 LS on Time Synchronization notification to UE Qualcomm Incorporated discussion Rel-18

[R2-2211997](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211997.zip) Reply LS on Time Synchronization Status notification towards UE(s) ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd LS out NR\_IIOT\_URLLC\_enh-Core To:SA2, RAN3, SA3 Cc:RAN1

[R2-2211559](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2211559.zip) Discussion on Time Synchronization Status notification towards UE(s) Huawei, HiSilicon discussion Rel-18

[R2-2212418](file:///C%3A%5CUsers%5Cpanidx%5COneDrive%20-%20InterDigital%20Communications%2C%20Inc%5CDocuments%5C3GPP%20RAN%5CTSGR2_120%5CDocs%5CR2-2212418.zip) Analysis of alternatives for sending time synchronization status Ericsson discussion Rel-18