**3GPP TSG RAN WG1 #110 R1-22xxxxx**

**Toulouse, France, August 22nd – 26th, 2022**

Source: NTT DOCOMO, INC.

Title: Session Notes for R17 UE Features 1

Agenda Item: 8.16

**Document for:** **Discussion and Decision**

***8.16 Rel-17 UE features***

[110-R17-UE\_features\_1] To be used for sharing updates on online/offline schedule, details on what is to be discussed in online/offline sessions, tdoc number of the moderator summary for online session, etc – Hiroki (DOCOMO)

* eIIoT & URLLC, RedCap, UE power saving, coverage enhancement, NB-IoT & eMTC, sidelink, MBS, 5G terrestrial broadcast, UL TX switching, SDT

[110-R17-UE\_features\_2] To be used for sharing updates on online/offline schedule, details on what is to be discussed in online/offline sessions, tdoc number of the moderator summary for online session, etc – Ralf (AT&T)

* NR-MIMO, NR from 52.6GHz to 71 GHz, NR-NTN, positioning, eIAB, DSS, IoT over NTN, 1024QAM

**8.16.1 UE features for enhanced IIoT and and URLLC**

R1-2207701 Summary on UE features for enhanced IIoT and URLLC Moderator (NTT DOCOMO, INC.)

[R1-2205784](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205784.zip) Rel-17 UE features for enhanced IIoT/URLLC Huawei, HiSilicon

[R1-2205956](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205956.zip) Discussion on UE features for enhanced IIoT and URLLC ZTE

[R1-2206307](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206307.zip) Discussion on UE features for IIoT and URLLC OPPO

[R1-2206766](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206766.zip) Discussion on UE features for IIoT and URLLC vivo

[R1-2207210](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207210.zip) UE features for enhanced IIOT and URLLC Qualcomm Incorporated

[R1-2207388](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207388.zip) Discussion on Rel.17 UE features for enhanced IIoT/URLLC NTT DOCOMO, INC.

[R1-2207581](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207581.zip) On UE features for enhanced IIoT and URLLC Nokia, Nokia Shanghai Bell

**8.16.2 UE features for NR coverage enhancement**

R1-2207702 Summary on UE features for NR coverage enhancement Moderator (NTT DOCOMO, INC.)

[R1-2205778](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205778.zip) Rel-17 UE features for NR coverage enhancement Huawei, HiSilicon

[R1-2205957](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205957.zip) Discussion on UE features for NR coverage enhancement ZTE

[R1-2206566](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206566.zip) Discussion on UE features for NR coverage enhancement Intel Corporation

[R1-2206612](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206612.zip) Discussion on UE features for NR coverage enhancement Xiaomi

[R1-2206685](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206685.zip) Remaining issues on UE features for Rel-17 NR coverage enhancements China Telecom

[R1-2206767](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206767.zip) Remaining issues on UE features for NR coverage enhancement vivo

[R1-2206808](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206808.zip) UE features for NR coverage enhancement Samsung

[R1-2206892](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206892.zip) Maintenance on Rel.17 UE features for NR coverage enhancement CMCC

[R1-2207017](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207017.zip) Discussion on UE features for NR Coverage Enhancement MediaTek Inc.

[R1-2207162](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207162.zip) UE Features for NR Coverage Enhancement Ericsson

[R1-2207211](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207211.zip) UE features for NR coverage enhancement Qualcomm Incorporated

[R1-2207316](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207316.zip) On Rel-17 NR coverage enhancement UE Features Apple

[R1-2207389](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207389.zip) Discussion on remaining issues in RAN1 UE features for NR coverage enhancement NTT DOCOMO, INC.

[R1-2207582](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207582.zip) On UE features for NR coverage enhancement Nokia, Nokia Shanghai Bell

**8.16.3 UE features for NR sidelink enhancement**

R1-2207703 Summary on UE features for NR sidelink enhancement Moderator (NTT DOCOMO, INC.)

[R1-2205767](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205767.zip) Remaining issues on UE feature for sidelink Huawei, HiSilicon

[R1-2205849](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205849.zip) Discussion on UE features for NR sidelink enhancement LG Electronics

[R1-2206156](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206156.zip) On UE features for NR sidelink enhancement ZTE,Sanechips

[R1-2206284](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206284.zip) On UE feature list for NR sidelink enhancement OPPO

[R1-2206335](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206335.zip) On the pre-requisites for Rel-17 SL feature groups FUTUREWEI

[R1-2206373](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206373.zip) Remaining issues on Rel-17 UE features for sidelink enhancements CATT, GOHIGH

[R1-2206768](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206768.zip) Remaining issues on UE features for NR sidelink enhancement vivo

[R1-2207212](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207212.zip) UE features for NR sidelink enhancements Qualcomm Incorporated

[R1-2207317](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207317.zip) On Rel-17 NR Sidelink UE Features Apple

[R1-2207390](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207390.zip) Discussion on Rel.17 UE features for NR sidelink enhancement NTT DOCOMO, INC.

[R1-2207564](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207564.zip) UE features for NR sidelink enhancements Ericsson

**8.16.4 UE features for NR MBS**

R1-2207704 Summary on UE features for NR MBS Moderator (NTT DOCOMO, INC.)

[R1-2205758](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205758.zip) Rel-17 UE features for NR MBS Huawei, HiSilicon

[R1-2205958](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205958.zip) Discussion on Rel-17 UE features for NR MBS ZTE

[R1-2205979](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205979.zip) UE features for R17 NR MBS Spreadtrum Communications

[R1-2206286](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206286.zip) Discussion on UE features for NR MBS OPPO

[R1-2206613](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206613.zip) Discussion on UE features for NR MBS Xiaomi

[R1-2206769](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206769.zip) UE features for NR MBS vivo

[R1-2207014](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207014.zip) Views on UE features for NR MBS MediaTek Inc.

[R1-2207213](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207213.zip) UE features for Rel-17 NR MBS Qualcomm Incorporated

[R1-2207318](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207318.zip) On Rel-17 NR MBS UE Features Apple

[R1-2207391](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207391.zip) Discussion on Rel.17 UE features for NR MBS NTT DOCOMO, INC.

[R1-2207583](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207583.zip) On UE features for NR MBS Nokia, Nokia Shanghai Bell

[R1-2207617](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207617.zip) Views on NR MBS UE features Ericsson

**8.16.5 Others**

*For discussion on UE features for any other Rel-17 work items.*

R1-2207705 Summary on UE features for NR RedCap Moderator (NTT DOCOMO, INC.)

R1-2207706 Summary on UE features for UE power saving enhancements Moderator (NTT DOCOMO, INC.)

R1-2207707 Summary on UE features for NB-IoT and LTE-MTC enhancements Moderator (NTT DOCOMO, INC.)

R1-2207708 Summary on UE features for TEI17 Moderator (NTT DOCOMO, INC.)

[R1-2205787](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205787.zip) On UE features for other Rel-17 work items Huawei, HiSilicon

[R1-2205914](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2205914.zip) Discussion on some remaining issues of Rel-17 UE features ZTE

[R1-2206567](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206567.zip) Discussion on remaining issues for Rel-17 UE capability Intel Corporation

[R1-2206770](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206770.zip) Other remaining issues for Rel-17 UE features (RedCap, B52.6GHz) vivo

[R1-2206809](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206809.zip) Views on UE features for Rel-17 NR FeMIMO Samsung

[R1-2206856](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206856.zip) Discussion on UE features for NTN-IoT OPPO

[R1-2206893](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2206893.zip) Discussion on UE features for RedCap CMCC

[R1-2207001](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207001.zip) Remaining issues on R17 UE features MediaTek Inc.

[R1-2207035](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207035.zip) Discussion on UE features for NR above 52.6 GHz LG Electronics

[R1-2207214](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207214.zip) Other Rel-17 UE features Qualcomm Incorporated

[R1-2207319](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207319.zip) View on Rel-17 UE features Apple

[R1-2207392](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207392.zip) Discussion on remaining issues in RAN1 UE features list for Rel-17 NR NTT DOCOMO, INC.

[R1-2207576](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207576.zip) UE features on Rel-17 Work Items under Agenda Item "Others" Ericsson

[R1-2207584](file:///C%3A%5CUsers%5Cyounsun%5CDocuments%5C3GPP%20documents%5CRAN1%20tdocs%5CTSGR1_110%5CDocs%5CR1-2207584.zip) On UE features for miscellaneous topics Nokia, Nokia Shanghai Bell