**3GPP TSG-RAN WG4 Meeting # 99-e R4-210XXXX**

**Electronic Meeting, 19th – 27th May 2021**

**Agenda item:** xx.xx.xx

**Source:** Moderator (RAN4 Chair)

**Title:** Email discussion summary for [99-e][Post-1] Main

**Document for:** Information

# Introduction

This document captures the comments for Tdocs to be email approved in main session for RAN4#99-e.

# Tdocs

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| **#** | **Email thread subject** | **Tdocs for email approval** | **Company** |
| 111 | [99-e][111] NR\_6GHz\_unlic\_EU\_maintenance | R4-2110691 draft TR 38.849 v0.3.0 Nokia | Nokia |
| 117 | [99-e][117] NR\_Baskets\_Part\_2 | R4-2109626 CR introduction completed band combinations for Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL) Samsung R4-2109627 Revised WID on Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL) Samsung R4-2109737 TR 37.717-51-11 update version 0.2.0 Samsung R4-2110580 TR 37.717-11-11 v0.5.0 Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL) CHTTL R4-2110595 Revised WID for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL) CHTTL R4-2110658 Revised Rel-17 WID on DC of 4 bands LTE inter-band CA (4DL1UL) and 1 NR band (1DL1UL) Nokia, Nokia Shanghai Bell R4-2110665 TR 37.717-21-11 V0.5.0 for DC of 2 LTE band and 1 NR band Huawei, HiSilicon R4-2110666 Revised WID: Dual Connectivity (DC) of 2 bands LTE inter-band CA (2DL/1UL) and 1 NR band (1DL/1UL) Huawei, HiSilicon R4-2110683 CR to introduce new combinations of LTE 4band + NR 1band for TS 38.101-3 Nokia, Nokia Shanghai Bell R4-2110714 Big CR for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL) CHTTL R4-2110715 draft TR 37.717-41-11-050 Nokia R4-2111069 Revised WID NR Intra-band Rel-17 Ericsson R4-2111070 Revised WID LTE 3DL and one NR band Rel-17 Ericsson R4-2111073 CR 38.101-1 new combinations Rel-17 NR Intra-band Ericsson R4-2111074 CR 38.101-2 new combinations Rel-17 NR Intra-band Ericsson R4-2111079 TR 38.717-01-01 v0.5.0 Rel-17 NR Intra-band Ericsson R4-2111080 TR 37.717-31-11 v0.5.0 Rel-17 DC combinations LTE 3DL and one NR band Ericsson |  |
| 118 | [99-e][118] NR\_Baskets\_Part\_3 | R4-2110461 Revised WID on Rel-17 NR Inter-band CA\_DC xUL\_2DL (x=1,2) ZTE Corporation R4-2110462 CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-1 ZTE Corporation R4-2110463 CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-2 ZTE Corporation R4-2110464 CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-3 ZTE Corporation R4-2110999 TR 38.717-02-01 v0.5.0 ZTE Wistron Telecom AB R4-2109121 TR 38.717-03-01 on Rel-17 NR inter-band Carrier Aggregation (CA) for 3 Down Link (DL) / 1 Up Link (UL) CATT R4-2109122 Revised WID on Rel-17 NR inter-band CA of 3DL bands and 1UL band CATT R4-2109123 CR on Introducing NR inter-band CA for 3DL Bands and 1UL band for 38.101-1 CATT R4-2109124 CR on Introducing NR inter-band CA for 3DL Bands and 1UL band for 38.101-3 CATT R4-2111071 Revised WID 4 bands NR CA Rel-17 Ericsson R4-2111076 CR 38.101-1 new combinations NR Inter-band 4 bands CA Ericsson R4-2111077 CR 38.101-3 new combinations NR Inter-band 4 bands CA Ericsson R4-2111081 TR 38.717-04-01 v0.5.0 Rel-17 NR Inter-band 4 bands CA Ericsson R4-2110465 Revised WID on Rel-17 NR Inter-band Carrier AggregationDual Connectivity for 3 bands DL with 2 bands UL ZTE Corporation R4-2110466 CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-1 ZTE Corporation R4-2107979 CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-3 ZTE Corporation R4-2111000 TR 38.717-03-02 v0.5.0 ZTE Wistron Telecom AB R4-2109770 Revised WID on NR inter-band CA for 5 bands DL with x bands UL (x=1, 2) Huawei, HiSilicon R4-2109772 CR on Introduction of completed 5 bands inter-band CA into TS 38.101-1 Huawei, HiSilicon R4-2109841 TR 37.717-11-21 v0.5.0 TR update: LTE(xDL/1UL)+ NR(2DL/1UL) DC in Rel-17 LG Electronics France R4-2109857 Revised WID on LTE (xDL/UL x=1.2,3,4) with NR 2 bands (2DL/1UL) DC in Rel-17 LG Electronics France R4-2109875 Introduction CR on new NR DC LTE(xDL/1UL)+ NR(2DL/1UL) band combinations in Rel-17 LG Electronics France R4-2110468 Revised WID on Rel-17 Dual Connectivity (DC) x bands (x=1,2) LTE inter-band CA (xDL/xUL) and y bands (y=3-x) NR inter-band CA ZTE Corporation R4-2110469 CR to reflect the completed ENDC combinations for 3 bands DL with 3 bands UL into TS 38.101-3 ZTE Corporation R4-2110470 TR 37.717-33 v0.4.0 ZTE Corporation R4-2110471 Revised WID on Rel-17 Dual Connectivity (DC) of x bands (x=1,2,3) LTE inter-band CA (xDL1UL) and 3 bands NR inter-band CA (3DL1UL) ZTE Corporation R4-2110472 CR to reflect the completed DC of x bands (x=1,2,3) LTE inter-band CA (xDL1UL) and 3 bands NR inter-band CA (3DL1UL) into TS 38.101-3 ZTE Corporation R4-2110473 TR 37.717-11-31\_v0.3.0 ZTE Corporation R4-2109628 CR introduction completed band combinations for Dual Connectivity (DC) of x bands (x=2,3,4) LTE inter-band CA (xDL/1UL) and 1 NR FR1 band (1DL/1UL) and 1 NR FR2 band (1DL/1UL) Samsung R4-2109629 Revised WID on Dual Connectivity (DC) of x bands (x=2,3,4) LTE inter-band CA (xDL/1UL) and 1 NR FR1 band (1DL/1UL) and 1 NR FR2 band (1DL/1UL) Samsung R4-2109738 TR 37.717-21-22 update version 0.2.0 Samsung |  |
| 119 | [99-e][119] NR\_LTE\_V2X\_PC5\_combos | R4-2107813 Big CR for 38.101, Introduce new band combinations for V2X con-current operation CATT R4-2109043 TR 37.875, Band combinations for V2X con-current operation CATT | CATT |
| 120 | [99-e][120] NR\_bands\_R17\_BWs | R4-2110092 Big CR to TS 38.104: Adding channel BW support in existing NR bands Ericsson R4-2110093 Big CR to TS 38.101-1: Adding channel BW support in existing NR bands Ericsson | Ericsson |
| 127 | [99-e][127] NR\_PC2\_CA\_R17\_2BDL\_2BUL | R4-2110051 Draft TR 38.841 v0.4.0: High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x =1,2) China Telecom R4-2110052 CR to 38.101-1 Introduce RF requirements for HPUE CA with 2 bands downlink and x bands uplink (x =1,2) China Telecom | China Telecom |
| 128 | [99-e][128] ENDC\_UE\_PC2\_R17\_NR\_TDD | R4-2108937 Big CR on introduction of completed PC2 for EN-DC with 1 LTE band + 1 NR TDD band China Unicom | China Unicom |
| 129 | [99-e][129] NR\_UE\_PC2\_CA\_SUL\_xBDL\_yBUL | R4-2107836 draft TR 38.842 v0.0.2 Huawei | Huawei |
| 130 | [99-e][130] ENDC\_PC2\_R17\_xLTE\_yNR | R4-2111078 CR 38.101-3 EN-DC PC2 Ericsson | Ericsson |
| 133 | [99-e][133] DL\_intrpt\_combos\_TxSW\_R17 | R4-2109031 TR 37.867 v0.3.0 CATT R4-2110071 CR to 38.101-1 Introduce DL interruption clarification for CA conduting Tx Switching China Telecom | CATT, China Telecom |
| 153 | [99-e][153] FS\_NR\_PC2\_UE\_FDD | R4-2108866 TR 38.861 v0.1.0 FS\_NR\_PC2\_UE\_FDD China Unicom | China Unicom |
| 155 | [99-e][155] LTE\_Baskets | R4-2109773 TR 36.717-03-02 v0.4.0 TR update for LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL in Rel-17 LG Electronics France R4-2109774 Revised WID on LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL in Rel-17 LG Electronics France R4-2109775 Introduction of LTE inter-band Carrier Aggregation for x bands DL (x=4, 5) with 1 band UL to TS36.101 Nokia, Nokia Shanghai Bell R4-2109814 Introduction of LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL to TS36.101 LG Electronics France R4-2110788 Revised WID: Rel17 LTE inter-band CA for 2 bands DL with 1 band UL Qualcomm Incorporated R4-2110789 TR 36.717-02-01 Rel-17 LTE inter-band CA for 2 bands DL and 1 band UL CA Qualcomm Incorporated R4-2111021 Big CR to TS36.101: Rel-17 LTE inter-band CA for 2 bands DL and 1 band UL CA Qualcomm Incorporated R4-2111208 Revised WID: LTE Advanced inter-band CA Rel-17 for x bands DL (x=4, 5, 6) with 1 band UL Nokia, Nokia Shanghai Bell R4-2111392 Introduction of completed R17 3DL band combinations to TS 36.101 Huawei, HiSilicon R4-2111393 Revised WID for LTE inter-band CA for 3 bands DL with 1 bands UL Huawei, HiSilicon R4-2111414 TR 37.717-03-01 0.3.0 Huawei, HiSilicon R4-2111453 Introduction of completed LTE CA for 2 bands DL with 2 bands UL into Rel-17 TS 36.101 Huawei,HiSilicon |  |

# Comment collection

## Email thread [111] NR\_6GHz\_unlic\_EU\_maintenance

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| **CR/TP number** | **Comments collection** |
| R4-2110691 draft TR 38.849 v0.3.0 Nokia |  |

## Email thread [117] NR\_Baskets\_Part\_2

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| **CR/TP number** | **Comments collection** |
| R4-2109626 CR introduction completed band combinations for Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL) Samsung |  |
| R4-2109627 Revised WID on Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL) Samsung |  |
| R4-2109737 TR 37.717-51-11 update version 0.2.0 Samsung |  |
| R4-2110580 TR 37.717-11-11 v0.5.0 Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL) CHTTL |  |
| R4-2110595 Revised WID for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL) CHTTL |  |
| R4-2110658 Revised Rel-17 WID on DC of 4 bands LTE inter-band CA (4DL1UL) and 1 NR band (1DL1UL) Nokia, Nokia Shanghai Bell |  |
| R4-2110665 TR 37.717-21-11 V0.5.0 for DC of 2 LTE band and 1 NR band Huawei, HiSilicon |  |
| R4-2110666 Revised WID: Dual Connectivity (DC) of 2 bands LTE inter-band CA (2DL/1UL) and 1 NR band (1DL/1UL) Huawei, HiSilicon |  |
| R4-2110683 CR to introduce new combinations of LTE 4band + NR 1band for TS 38.101-3 Nokia, Nokia Shanghai Bell |  |
| R4-2110714 Big CR for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL) CHTTL |  |
| R4-2110715 draft TR 37.717-41-11-050 Nokia |  |
| R4-2111069 Revised WID NR Intra-band Rel-17 Ericsson |  |
| R4-2111070 Revised WID LTE 3DL and one NR band Rel-17 Ericsson |  |
| R4-2111073 CR 38.101-1 new combinations Rel-17 NR Intra-band Ericsson |  |
| R4-2111074 CR 38.101-2 new combinations Rel-17 NR Intra-band Ericsson |  |
| R4-2111079 TR 38.717-01-01 v0.5.0 Rel-17 NR Intra-band Ericsson |  |
| R4-2111080 TR 37.717-31-11 v0.5.0 Rel-17 DC combinations LTE 3DL and one NR band Ericsson |  |
| R4-2109626 CR introduction completed band combinations for Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL) Samsung |  |
| R4-2109627 Revised WID on Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL) Samsung |  |

## Email thread [118] NR\_Baskets\_Part\_3

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| **CR/TP number** | **Comments collection** |
| R4-2110461 Revised WID on Rel-17 NR Inter-band CA\_DC xUL\_2DL (x=1,2) ZTE Corporation |  |
| R4-2110462 CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-1 ZTE Corporation |  |
| R4-2110463 CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-2 ZTE Corporation |  |
| R4-2110464 CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-3 ZTE Corporation |  |
| R4-2110999 TR 38.717-02-01 v0.5.0 ZTE Wistron Telecom AB |  |
| R4-2109121 TR 38.717-03-01 on Rel-17 NR inter-band Carrier Aggregation (CA) for 3 Down Link (DL) / 1 Up Link (UL) CATT |  |
| R4-2109122 Revised WID on Rel-17 NR inter-band CA of 3DL bands and 1UL band CATT |  |
| R4-2109123 CR on Introducing NR inter-band CA for 3DL Bands and 1UL band for 38.101-1 CATT |  |
| R4-2109124 CR on Introducing NR inter-band CA for 3DL Bands and 1UL band for 38.101-3 CATT |  |
| R4-2111071 Revised WID 4 bands NR CA Rel-17 Ericsson |  |
| R4-2111076 CR 38.101-1 new combinations NR Inter-band 4 bands CA Ericsson |  |
| R4-2111077 CR 38.101-3 new combinations NR Inter-band 4 bands CA Ericsson |  |
| R4-2111081 TR 38.717-04-01 v0.5.0 Rel-17 NR Inter-band 4 bands CA Ericsson |  |
| R4-2110465 Revised WID on Rel-17 NR Inter-band Carrier AggregationDual Connectivity for 3 bands DL with 2 bands UL ZTE Corporation |  |
| R4-2110466 CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-1 ZTE Corporation |  |
| R4-2107979 CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-3 ZTE Corporation |  |
| R4-2111000 TR 38.717-03-02 v0.5.0 ZTE Wistron Telecom AB |  |
| R4-2109770 Revised WID on NR inter-band CA for 5 bands DL with x bands UL (x=1, 2) Huawei, HiSilicon |  |
| R4-2109772 CR on Introduction of completed 5 bands inter-band CA into TS 38.101-1 Huawei, HiSilicon |  |
| R4-2109841 TR 37.717-11-21 v0.5.0 TR update: LTE(xDL/1UL)+ NR(2DL/1UL) DC in Rel-17 LG Electronics France |  |
| R4-2109857 Revised WID on LTE (xDL/UL x=1.2,3,4) with NR 2 bands (2DL/1UL) DC in Rel-17 LG Electronics France |  |
| R4-2109875 Introduction CR on new NR DC LTE(xDL/1UL)+ NR(2DL/1UL) band combinations in Rel-17 LG Electronics France |  |
| R4-2110468 Revised WID on Rel-17 Dual Connectivity (DC) x bands (x=1,2) LTE inter-band CA (xDL/xUL) and y bands (y=3-x) NR inter-band CA ZTE Corporation |  |
| R4-2110469 CR to reflect the completed ENDC combinations for 3 bands DL with 3 bands UL into TS 38.101-3 ZTE Corporation |  |
| R4-2110470 TR 37.717-33 v0.4.0 ZTE Corporation |  |
| R4-2110471 Revised WID on Rel-17 Dual Connectivity (DC) of x bands (x=1,2,3) LTE inter-band CA (xDL1UL) and 3 bands NR inter-band CA (3DL1UL) ZTE Corporation |  |
| R4-2110472 CR to reflect the completed DC of x bands (x=1,2,3) LTE inter-band CA (xDL1UL) and 3 bands NR inter-band CA (3DL1UL) into TS 38.101-3 ZTE Corporation |  |
| R4-2110473 TR 37.717-11-31\_v0.3.0 ZTE Corporation |  |
| R4-2109628 CR introduction completed band combinations for Dual Connectivity (DC) of x bands (x=2,3,4) LTE inter-band CA (xDL/1UL) and 1 NR FR1 band (1DL/1UL) and 1 NR FR2 band (1DL/1UL) Samsung |  |
| R4-2109629 Revised WID on Dual Connectivity (DC) of x bands (x=2,3,4) LTE inter-band CA (xDL/1UL) and 1 NR FR1 band (1DL/1UL) and 1 NR FR2 band (1DL/1UL) Samsung |  |
| R4-2109738 TR 37.717-21-22 update version 0.2.0 Samsung |  |

## Email thread [119] NR\_LTE\_V2X\_PC5\_combo

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| **CR/TP number** | **Comments collection** |
| R4-2107813 Big CR for 38.101, Introduce new band combinations for V2X con-current operation CATT |  |
| R4-2109043 TR 37.875, Band combinations for V2X con-current operation CATT |  |

## Email thread [120] NR\_bands\_R17\_BWs

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| **CR/TP number** | **Comments collection** |
| R4-2110092 Big CR to TS 38.104: Adding channel BW support in existing NR bands Ericsson |  |
| R4-2110093 Big CR to TS 38.101-1: Adding channel BW support in existing NR bands Ericsson |  |

## Email thread[127] NR\_PC2\_CA\_R17\_2BDL\_2BUL

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| **CR/TP number** | **Comments collection** |
| R4-2110051 Draft TR 38.841 v0.4.0: High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x =1,2) China Telecom |  |
| R4-2110052 CR to 38.101-1 Introduce RF requirements for HPUE CA with 2 bands downlink and x bands uplink (x =1,2) China Telecom |  |

## Email thread[128] ENDC\_UE\_PC2\_R17\_NR\_TDD

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| **CR/TP number** | **Comments collection** |
| R4-2108937 Big CR on introduction of completed PC2 for EN-DC with 1 LTE band + 1 NR TDD band China Unicom |  |

## Email thread[129] NR\_UE\_PC2\_CA\_SUL\_xBDL\_yBUL

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| **CR/TP number** | **Comments collection** |
| R4-2107836 draft TR 38.842 v0.0.2 Huawei |  |

## Email thread[130] ENDC\_PC2\_R17\_xLTE\_yNR

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| **CR/TP number** | **Comments collection** |
| R4-2111078 CR 38.101-3 EN-DC PC2 Ericsson |  |

## Email thread[133] DL\_intrpt\_combos\_TxSW\_R17

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| **CR/TP number** | **Comments collection** |
| R4-2109031 TR 37.867 v0.3.0 CATT |  |
| R4-2110071 CR to 38.101-1 Introduce DL interruption clarification for CA conduting Tx Switching China Telecom |  |

## Email thread[153] FS\_NR\_PC2\_UE\_FDD

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| **CR/TP number** | **Comments collection** |
| R4-2108866 TR 38.861 v0.1.0 FS\_NR\_PC2\_UE\_FDD China Unicom |  |

## Email thread[155] LTE\_Baskets

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| **CR/TP number** | **Comments collection** |
| R4-2109773 TR 36.717-03-02 v0.4.0 TR update for LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL in Rel-17 LG Electronics France |  |
| R4-2109774 Revised WID on LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL in Rel-17 LG Electronics France |  |
| R4-2109775 Introduction of LTE inter-band Carrier Aggregation for x bands DL (x=4, 5) with 1 band UL to TS36.101 Nokia, Nokia Shanghai Bell |  |
| R4-2109814 Introduction of LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL to TS36.101 LG Electronics France |  |
| R4-2110788 Revised WID: Rel17 LTE inter-band CA for 2 bands DL with 1 band UL Qualcomm Incorporated |  |
| R4-2110789 TR 36.717-02-01 Rel-17 LTE inter-band CA for 2 bands DL and 1 band UL CA Qualcomm Incorporated |  |
| R4-2111021 Big CR to TS36.101: Rel-17 LTE inter-band CA for 2 bands DL and 1 band UL CA Qualcomm Incorporated |  |
| R4-2111208 Revised WID: LTE Advanced inter-band CA Rel-17 for x bands DL (x=4, 5, 6) with 1 band UL Nokia, Nokia Shanghai Bell |  |
| R4-2111392 Introduction of completed R17 3DL band combinations to TS 36.101 Huawei, HiSilicon |  |
| R4-2111393 Revised WID for LTE inter-band CA for 3 bands DL with 1 bands UL Huawei, HiSilicon |  |
| R4-2111414 TR 37.717-03-01 0.3.0 Huawei, HiSilicon |  |
| R4-2111453 Introduction of completed LTE CA for 2 bands DL with 2 bands UL into Rel-17 TS 36.101 Huawei,HiSilicon |  |

# Decision for Tdocs

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
| R4-210xxxx | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
| R4-210xxxx | WF on … | YYY | Agreeable, Revised, Noted |  |
| R4-210xxxx | LS on … | ZZZ | Agreeable, Revised, Noted |  |
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