Annex A (informative):  
Change history

| **Change history** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **TSG #** | **TSG Doc.** | **CR** | **Rev** | **Subject/Comment** | **Old** | **New** |
| 2006-09 |  |  |  |  | Draft version created |  | 0.0.0 |
| 2006-10 |  |  |  |  | Endorsed by RAN1 | 0.0.0 | 0.1.0 |
| 2007-01 |  |  |  |  | Inclusion of decisions from RAN1#46bis and RAN1#47 | 0.1.0 | 0.1.1 |
| 2007-01 |  |  |  |  | Endorsed by RAN1 | 0.1.1 | 0.2.0 |
| 2007-02 |  |  |  |  | Inclusion of decisions from RAN1#47bis | 0.2.0 | 0.2.1 |
| 2007-02 |  |  |  |  | Endorsed by RAN1 | 0.2.1 | 0.3.0 |
| 2007-02 |  |  |  |  | Editor's version including decisions from RAN1#48 & RAN1#47bis | 0.3.0 | 0.3.1 |
| 2007-03 |  |  |  |  | Updated Editor's version | 0.3.1 | 0.3.2 |
| 2007-03 | RAN-35 | RP-070171 |  |  | For information at RAN#35 | 0.3.2 | 1.0.0 |
| 2007-03 |  |  |  |  | Random access text modified to better reflect RAN1 scope | 1.0.0 | 1.0.1 |
| 2007-03 |  |  |  |  | Updated Editor's version | 1.0.1 | 1.0.2 |
| 2007-03 |  |  |  |  | Endorsed by RAN1 | 1.0.2 | 1.1.0 |
| 2007-05 |  |  |  |  | Updated Editor's version | 1.1.0 | 1.1.1 |
| 2007-05 |  |  |  |  | Updated Editor's version | 1.1.1 | 1.1.2 |
| 2007-05 |  |  |  |  | Endorsed by RAN1 | 1.1.2 | 1.2.0 |
| 2007-08 |  |  |  |  | Updated Editor's version | 1.2.0 | 1.2.1 |
| 2007-08 |  |  |  |  | Updated Editor's version – uplink power control from RAN1#49bis | 1.2.1 | 1.2.2 |
| 2007-08 |  |  |  |  | Endorsed by RAN1 | 1.2.2 | 1.3.0 |
| 2007-09 |  |  |  |  | Updated Editor's version reflecting RAN#50 decisions | 1.3.0 | 1.3.1 |
| 2007-09 |  |  |  |  | Updated Editor's version reflecting comments | 1.3.1 | 1.3.2 |
| 2007-09 |  |  |  |  | Updated Editor's version reflecting further comments | 1.3.2 | 1.3.3 |
| 2007-09 |  |  |  |  | Updated Editor's version reflecting further comments | 1.3.3 | 1.3.4 |
| 2007-09 |  |  |  |  | Updated Editor's version reflecting further comments | 1.3.4 | 1.3.5 |
| 2007-09 | RAN-37 | RP-070731 |  |  | Endorsed by RAN1 | 1.3.5 | 2.0.0 |
| 2007-09 | RAN-37 | RP-070737 |  |  | For approval at RAN#37 | 2.0.0 | 2.1.0 |
| 12/09/07 | RP-37 | RP-070737 | - | - | Approved version | 2.1.0 | 8.0.0 |
| 28/11/07 | RP-38 | RP-070949 | 0001 | 2 | Update of 36.213 | 8.0.0 | 8.1.0 |
| 05/03/08 | RP-39 | RP-080145 | 0002 | - | Update of TS 36.213 according to changes listed in cover sheet | 8.1.0 | 8.2.0 |
| 28/05/08 | RP-40 | RP-080434 | 0003 | 1 | PUCCH timing and other formatting and typo corrections | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0006 | 1 | PUCCH power control for non-unicast information | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0008 | - | UE ACK/NACK Procedure | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0009 | - | UL ACK/NACK timing for TDD | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0010 | - | Specification of UL control channel assignment | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0011 | - | Precoding Matrix for 2Tx Open-loop SM | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0012 | - | Clarifications on UE selected CQI reports | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0013 | 1 | UL HARQ Operation and Timing | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0014 | - | SRS power control | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0015 | 1 | Correction of UE PUSCH frequency hopping procedure | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0017 | 4 | Blind PDCCH decoding | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0019 | 1 | Tx Mode vs DCI format is clarified | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0020 | - | Resource allocation for distributed VRB | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0021 | 2 | Power Headroom | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0022 | - | Clarification for RI reporting in PUCCH and PUSCH reporting modes | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0025 | - | Correction of the description of PUSCH power control for TDD | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0026 | - | UL ACK/NACK procedure for TDD | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0027 | - | Indication of radio problem detection | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0028 | - | Definition of Relative Narrowband TX Power Indicator | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0029 | - | Calculation of ΔTF(*i*) for UL-PC | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0030 | - | CQI reference and set S definition, CQI mode removal, and Miscellanious | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0031 | - | Modulation order and TBS determination for PDSCH and PUSCH | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080434 | 0032 | - | On Sounding RS | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080426 | 0033 | - | Multiplexing of rank and CQI/PMI reports on PUCCH | 8.2.0 | 8.3.0 |
| 28/05/08 | RP-40 | RP-080466 | 0034 | - | Timing advance command responding time | 8.2.0 | 8.3.0 |
| 09/09/08 | RP-41 | RP-080670 | 37 | 2 | SRS hopping pattern for closed loop antenna selection | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 39 | 2 | Clarification on uplink power control | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 41 | - | Clarification on DCI formats using resource allocation type 2 | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 43 | 2 | Clarification on tree structure of CCE aggregations | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 46 | 2 | Correction of the description of PUCCH power control for TDD | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 47 | 1 | Removal of CR0009 | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 48 | 1 | Correction of mapping of cyclic shift value to PHICH modifier | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 49 | - | TBS disabling for DCI formats 2 and 2A | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 50 | - | Correction of maximum TBS sizes | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 51 | - | Completion of the table specifying the number of bits for the periodic feedback | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 54 | - | Clarification of RNTI for PUSCH/PUCCH power control with DCI formats 3/3A | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 55 | 1 | Clarification on mapping of Differential CQI fields | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 59 | 1 | PUSCH Power Control | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 60 | - | RB restriction and modulation order for CQI-only transmission on PUSCH | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 61 | - | Modulation order determination for uplink retransmissions | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 62 | 2 | Introducing missing L1 parameters into 36.213 | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 63 | 2 | Correcting the range and representation of delta\_TF\_PUCCH | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 64 | 1 | Adjusting TBS sizes to for VoIP | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 67 | - | Correction to the downlink resource allocation | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 68 | - | Removal of special handling for PUSCH mapping in PUCCH region | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 69 | - | Correction to the formulas for uplink power control | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 70 | 1 | Definition of Bit Mapping for DCI Signalling | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 71 | - | Clarification on PUSCH TPC commands | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 72 | 1 | Reference for CQI/PMI Reporting Offset | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 74 | - | Correction to the downlink/uplink timing | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 75 | - | Correction to the time alignment command | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 77 | 1 | Correction of offset signalling of UL Control information MCS | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 78 | 2 | DCI format1C | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 80 | - | Correction to Precoder Cycling for Open-loop Spatial Multiplexing | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 81 | 1 | Clarifying Periodic CQI Reporting using PUCCH | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 84 | 1 | CQI reference measurement period | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 86 | - | Correction on downlink multi-user MIMO | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 87 | - | PUCCH Reporting | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 88 | 1 | Handling of Uplink Grant in Random Access Response | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 89 | - | Correction to UL Hopping operation | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 90 | - | DRS EPRE | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 92 | - | Uplink ACK/NACK mapping for TDD | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 93 | - | UL SRI Parameters Configuration | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 94 | - | Miscellaneous updates for 36.213 | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 95 | - | Clarifying Requirement for Max PDSCH Coding Rate | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 96 | - | UE Specific SRS Configuration | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 97 | - | DCI Format 1A changes needed for scheduling Broadcast Control | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 98 | - | Processing of TPC bits in the random access response | 8.3.0 | 8.4.0 |
| 09/09/08 | RP-41 | RP-080670 | 100 | 1 | Support of multi-bit ACK/NAK transmission in TDD | 8.3.0 | 8.4.0 |
| 03/12/08 | RP-42 | RP-081075 | 82 | 3 | Corrections to RI for CQI reporting | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 83 | 2 | Moving description of large delay CDD to 36.211 | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 102 | 3 | Reception of DCI formats | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 105 | 8 | Alignment of RAN1/RAN2 specification | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 107 | 1 | General correction of reset of power control and random access response message | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 108 | 2 | Final details on codebook subset restrictions | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 109 | - | Correction on the definition of Pmax | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 112 | 2 | CQI/PMI reference measurement periods | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 113 | - | Correction of introduction of shortened SR | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 114 | - | RAN1/2 specification alignment on HARQ operation | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 115 | - | Introducing other missing L1 parameters in 36.213 | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 116 | - | PDCCH blind decoding | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 117 | - | PDCCH search space | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 119 | - | Delta\_TF for PUSCH | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 120 | - | Delta\_preamble\_msg3 parameter values and TPC command in RA response | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 122 | 1 | Correction of offset signaling of uplink control information MCS | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 124 | - | Miscellaneous Corrections | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 125 | - | Clarification of the uplink index in TDD mode | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 126 | - | Clarification of the uplink transmission configurations | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 127 | 2 | Correction to the PHICH index assignment | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 128 | - | Clarification of type-2 PDSCH resource allocation for format 1C | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 129 | - | Clarification of uplink grant in random access response | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 130 | - | UE sounding procedure | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 134 | - | Change for determining DCI format 1A TBS table column indicator for broadcast control | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 135 | - | Clarifying UL VRB Allocation | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 136 | 1 | Correction for Aperiodic CQI | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 137 | 1 | Correction for Aperiodic CQI Reporting | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 138 | 1 | Correction to PUCCH CQI reporting mode for N^DL\_RB <= 7 | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 140 | 1 | On sounding procedure in TDD | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 141 | 1 | Alignment of RAN1/RAN3 specification | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 143 | 1 | TTI bundling | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 144 | 1 | ACK/NACK transmission on PUSCH for LTE TDD | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 145 | 1 | Timing relationship between PHICH and its associated PUSCH | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 147 | 1 | Definition of parameter for downlink reference signal transmit power | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 148 | 1 | Radio link monitoring | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 149 | 1 | Correction in 36.213 related to TDD downlink HARQ processes | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 151 | - | Nominal PDSCH-to-RS EPRE Offset for CQI Reporting | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 152 | 1 | Support of UL ACK/NAK repetition in Rel-8 | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 155 | - | Clarification of misconfiguration of aperiodic CQI and SR | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 156 | 1 | Correction of control information multiplexing in subframe bundling mode | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 157 | - | Correction to the PHICH index assignment | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 158 | 1 | UE transmit antenna selection | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 159 | - | Clarification of spatial different CQI for CQI reporting Mode 2-1 | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 160 | 1 | Corrections for TDD ACK/NACK bundling and multiplexing | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 161 | - | Correction to RI for Open-Loop Spatial Multiplexing | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 162 | - | Correction of differential CQI | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 163 | - | Inconsistency between PMI definition and codebook index | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 164 | - | PDCCH validation for semi-persistent scheduling | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 165 | 1 | Correction to the UE behavior of PUCCH CQI piggybacked on PUSCH | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 166 | - | Correction on SRS procedure when shortened PUCCH format is used | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 167 | 1 | Transmission overlapping of physical channels/signals with PDSCH for transmission mode 7 | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 169 | - | Clarification of SRS and SR transmission | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 171 | - | Clarification on UE behavior when skipping decoding | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 172 | 1 | PUSCH Hopping operation corrections | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 173 | - | Clarification on message 3 transmission timing | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 174 | - | MCS handling for DwPTS | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 175 | - | Clarification of UE-specific time domain position for SR transmission | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 176 | 1 | Physical layer parameters for CQI reporting | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 177 | - | A-periodic CQI clarification for TDD UL/DL configuration 0 | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 179 | 1 | Correction to the definitions of rho\_A and rho\_B (downlink power allocation) | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 180 | - | Clarification of uplink A/N resource indication | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 181 | - | PDCCH format 0 for message 3 adaptive retransmission and transmission of control information in message 3 during contention based random access procedure | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081075 | 182 | - | To Fix the Discrepancy of Uplink Power Control and Channel Coding of Control Information in PUSCH | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081122 | 183 | 1 | CQI reporting for antenna port 5 | 8.4.0 | 8.5.0 |
| 03/12/08 | RP-42 | RP-081110 | 168 | 1 | Clarification on path loss definition | 8.4.0 | 8.5.0 |
| 04/03/09 | RP-43 | RP-090236 | 184 | 1 | Corrections to Transmitted Rank Indication | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 185 | 4 | Corrections to transmission modes | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 186 | 2 | Delta\_TF configuration for control only PUSCH | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 187 | 1 | Correction to concurrent SRS and ACK/NACK transmission | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 191 | 1 | PDCCH release for semi-persistent scheduling | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 192 | 1 | Correction on ACKNACK transmission on PUSCH for LTE TDD | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 193 | - | Correction to subband differential CQI value to offset level mapping for aperiodic CQI reporting | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 194 | - | Correction for DRS Collision handling | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 196 | 2 | Alignment of RAN1/RAN4 specification on UE maximum output power | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 197 | - | Transmission scheme for transmission mode 7 with SPS C-RNTI | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 198 | - | Clarifying bandwidth parts for periodic CQI reporting and CQI refererence period | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 199 | 2 | Correction to the ACK/NACK bundling in case of transmission mode 3 and 4 | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 200 | - | ACK/NAK repetition for TDD ACK/NAK multiplexing | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 201 | - | Clarifying UL ACK/NAK transmission in TDD | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 202 | - | Corrections to UE Transmit Antenna Selection | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 203 | - | Correction to UE PUSCH hopping procedure | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 204 | - | Correction to PHICH resource association in TTI bundling | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 205 | - | Clarification of the length of resource assignment | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 206 | - | Correction on ACK/NACK transmission for downlink SPS resource release | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 207 | - | Introduction of additional values of wideband CQI/PMI periodicities | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 208 | 2 | Correction to CQI/PMI/RI reporting field | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 209 | 2 | Correction to rho\_A definition for CQI calculation | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 210 | - | Correction to erroneous cases in PUSCH linear block codes | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 211 | 1 | Removing RL monitoring start and stop | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 214 | 1 | Correction to type-1 and type-2 PUSCH hopping | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 215 | - | Contradicting statements on determination of CQI subband size | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 216 | - | Corrections to SRS | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 219 | 2 | Miscellaneous corrections on TDD ACKNACK | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 221 | 1 | CR for Redundancy Version mapping function for DCI 1C | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 223 | - | Scrambling of PUSCH corresponding to Random Access Response Grant | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 225 | - | Removal of SRS with message 3 | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 226 | 3 | PRACH retransmission timing | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 227 | - | Clarifying error handling of PDSCH and PUSCH assignments | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 228 | - | Clarify PHICH index mapping | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 229 | - | Correction of CQI timing | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 230 | - | Alignment of CQI parameter names with RRC | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 231 | 1 | Removal of 'Off' values for periodic reporting in L1 | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 232 | - | Default value of RI | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 233 | 1 | Clarification of uplink timing adjustments | 8.5.0 | 8.6.0 |
| 04/03/09 | RP-43 | RP-090236 | 234 | - | Clarification on ACK/NAK repetition | 8.5.0 | 8.6.0 |
| 27/05/09 | RP-44 | RP-090529 | 235 | 1 | Correction to the condition of resetting accumulated uplink power correction | 8.6.0 | 8.7.0 |
| 27/05/09 | RP-44 | RP-090529 | 236 | - | Correction to the random access channel parameters received from higher layer | 8.6.0 | 8.7.0 |
| 27/05/09 | RP-44 | RP-090529 | 237 | - | Correction on TDD ACKNACK | 8.6.0 | 8.7.0 |
| 27/05/09 | RP-44 | RP-090529 | 238 | 1 | Correction on CQI reporting | 8.6.0 | 8.7.0 |
| 27/05/09 | RP-44 | RP-090529 | 239 | - | Correction on the HARQ process number | 8.6.0 | 8.7.0 |
| 27/05/09 | RP-44 | RP-090529 | 241 | 1 | CR correction of the description on TTI-bundling | 8.6.0 | 8.7.0 |
| 27/05/09 | RP-44 | RP-090529 | 242 | 1 | Clarify latest and initial PDCCH for PDSCH and PUSCH transmissions, and NDI for SPS activation | 8.6.0 | 8.7.0 |
| 27/05/09 | RP-44 | RP-090529 | 243 | - | Clarify DRS EPRE | 8.6.0 | 8.7.0 |
| 27/05/09 | RP-44 | RP-090529 | 244 | 1 | Clarification on TPC commands for SPS | 8.6.0 | 8.7.0 |
| 15/09/09 | RP-45 | RP-090888 | 245 | 1 | Correction to PUSCH hopping and PHICH mapping procedures | 8.7.0 | 8.8.0 |
| 15/09/09 | RP-45 | RP-090888 | 246 | - | Clarification on subband indexing in periodic CQI reporting | 8.7.0 | 8.8.0 |
| 15/09/09 | RP-45 | RP-090888 | 247 | 2 | Correction to DVRB operation in TDD transmission mode 7 | 8.7.0 | 8.8.0 |
| 15/09/09 | RP-45 | RP-090888 | 249 | - | Clarification of concurrent ACKNACK and periodic PMI/RI transmission on PUCCH for TDD | 8.7.0 | 8.8.0 |
| 15/09/09 | RP-45 | RP-090888 | 250 | - | Clarify Inter-cell synchronization text | 8.7.0 | 8.8.0 |
| 01/12/09 | RP-46 | RP-091172 | 248 | 1 | Introduction of LTE positioning | 8.8.0 | 9.0.0 |
| 01/12/09 | RP-46 | RP-091172 | 254 | - | Clarification of PDSCH and PRS in combination for LTE positioning | 8.8.0 | 9.0.0 |
| 01/12/09 | RP-46 | RP-091177 | 255 | 5 | Editorial corrections to 36.213 | 8.8.0 | 9.0.0 |
| 01/12/09 | RP-46 | RP-091257 | 256 | 1 | Introduction of enhanced dual layer transmission | 8.8.0 | 9.0.0 |
| 01/12/09 | RP-46 | RP-091177 | 257 | 1 | Add shorter SR periodicity | 8.8.0 | 9.0.0 |
| 01/12/09 | RP-46 | RP-091256 | 258 | - | Introduction of LTE MBMS | 8.8.0 | 9.0.0 |
| 17/12/09 | RP-46 | RP-091257 | 256 | 1 | Correction by MCC due to wrong implementation of CR0256r1 – Sentence is added to Single-antenna port scheme subclause 7.1.1 | 9.0.0 | 9.0.1 |
| 16/03/10 | RP-47 | RP-100211 | 259 | 3 | UE behavior when collision of antenna port 7/8 with PBCH or SCH happened and when distributed VRB is used with antenna port 7 | 9.0.1 | 9.1.0 |
| 16/03/10 | RP-47 | RP-100210 | 260 | 1 | MCCH change notification using DCI format 1C | 9.0.1 | 9.1.0 |
| 16/03/10 | RP-47 | RP-100211 | 263 | - | Correction on PDSCH EPRE and UE-specific RS EPRE for Rel-9 enhanced DL transmissions | 9.0.1 | 9.1.0 |
| 01/06/10 | RP-48 | RP-100589 | 265 | - | Clarification for TDD when multiplexing ACK/NACK with SR of ACK/NACK with CQI/PMI or RI | 9.1.0 | 9.2.0 |
| 01/06/10 | RP-48 | RP-100590 | 268 | 1 | Clarification of PRS EPRE | 9.1.0 | 9.2.0 |
| 14/09/10 | RP-49 | RP-100900 | 269 | - | Clarification on Extended CP support with Transmission Mode 8 | 9.2.0 | 9.3.0 |
| 07/12/10 | RP-50 | RP-101320 | 270 | - | Introduction of Rel-10 LTE-Advanced features in 36.213 | 9.3.0 | 10.0.0 |
| 27/12/10 | - | - | - | - | Editorial change to correct a copy/past error in subclause 7.2.2 | 10.0.0 | 10.0.1 |
| 15/03/11 | RP-51 | RP-110255 | 271 | 1 | A clarification for redundancy version of PMCH | 10.0.1 | 10.1.0 |
| 15/03/11 | RP-51 | RP-110258 | 272 | - | RLM Procedure with restricted measurements | 10.0.1 | 10.1.0 |
| 15/03/11 | RP-51 | RP-110256 | 273 | - | Corrections to Rel-10 LTE-Advanced features in 36.213 | 10.0.1 | 10.1.0 |
| 01/06/11 | RP-52 | RP-110819 | 274 | 3 | Correction to HARQ-ACK procedure for TDD mode b with M=2 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 275 | 3 | Determination of PUSCH A/N codebook size for TDD | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110823 | 276 | - | The triggering of aperiodic SRS in DCI formats 2B and 2C | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 278 | 3 | Corrections to power headroom | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 279 | 1 | Removal of square brackets for PUCCH format 3 ACK/NACK | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 281 | 1 | Correction of AN repetition and PUCCH format 3 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 282 | 2 | Correction to timing for secondary cell activation and deactivation | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110823 | 283 | 1 | Correction to MCS offset for multiple TBs | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110820 | 286 | 1 | Miscellaneous Corrections | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 288 | 1 | Corrections on UE procedure for determining PUCCH Assignment | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 289 | 2 | Correction to Multi-cluster flag in DCI format 0 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 290 | 2 | Joint transmission of ACK/NACK and SR with PUCCH format 3 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 291 | 3 | Correction of uplink resource allocation type 1 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110821 | 292 | 1 | Correction on CSI-RS configuration | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110818 | 294 | - | ACK/NACK and CQI simultaneous transmission in ACK/NACK bundling in TDD | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110823 | 295 | - | UE specific disabling of UL DMRS sequence hopping | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110821 | 296 | - | PDSCH transmission in MBSFN subframes | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 297 | - | Introduction of PCMAX for PUSCH power scaling | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 298 | - | Power control for SR and ACK/NACK with PUCCH format 3 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 299 | 2 | CR on power control for HARQ-ACK transmission on PUCCH | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 300 | 2 | Correction to handling of search space overlap | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 301 | 1 | Correction to simultaneous transmission of SRS and PUCCH format 2/2a/2b | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 302 | 1 | Correction for Simultaneous PUCCH and SRS Transmissions on CA | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110821 | 303 | - | Correction on 8Tx Codebook Sub-sampling for PUCCH Mode 1-1 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110821 | 304 | 1 | Corrections on CQI type in PUCCH mode 2-1 and clarification on simultaneous PUCCH and PUSCH transmission for UL-SCH subframe bundling | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110818 | 305 | 1 | Correction on UE behaviour upon reporting periodic CSI using PUCCH Mode1-1 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110818 | 306 | - | Clarification for the definition of CQI | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110818 | 307 | - | Clarification for the definition of Precoding Matrix Indicator | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 308 | - | Simultaneous SRS transmissions in more than one cell | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 310 | 1 | Miscellaneous Corrections for TS 36.213 | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110821 | 311 | 1 | Configuration of pmi-RI-Report | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 312 | 1 | Correction on the support of PUCCH format 3 and channel selection | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110821 | 313 | - | Correction on UE behaviour during DM-RS transmission on subframes carrying synchronization signals | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110820 | 314 | 1 | 36.213 CR on antenna selection | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110823 | 316 | 1 | Number of HARQ process for UL spatial multiplexing | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 317 | - | PUCCH format 3 Fallback procedure in TDD | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 318 | - | Clarification on CSI reporting under an invalid downlink subframe | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 320 | - | Multiple Aperiodic SRS Triggers for Same Configuration | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110823 | 321 | - | UE antenna switch in UL MIMO | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110819 | 322 | - | UE behaviour for PDSCH reception with limited soft buffer in CA | 10.1.0 | 10.2.0 |
| 01/06/11 | RP-52 | RP-110859 | 323 | - | Joint transmission of ACK/NACK and SR or CSI with PUCCH format 3 and channel selection | 10.1.0 | 10.2.0 |
| 15/09/11 | RP-53 | RP-111229 | 277 | 1 | Correction to reception of PRS in MBSFN subframes | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111230 | 325 | 3 | Corrections on UE procedure for reporting HARQ-ACK | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111230 | 326 | 2 | Corrections on Physical Uplink Control Channel Procedure | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111231 | 331 | 1 | Correction to uplink transmission scheme usage for random access response and PHICH-triggered retransmissions | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111229 | 336 | - | Corrections on transmission mode 9 | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111230 | 339 | - | Corrections on HARQ-ACK codebook size determination | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111230 | 340 | - | Corrections on TDD PUCCH format 1b with channel selection and HARQ-ACK transmission on PUSCH | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111230 | 341 | - | Corrections on NACK generation | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111230 | 342 | - | Corrections on power headroom reporting | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111229 | 346 | - | Correction on TBS translation table | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111229 | 347 | 2 | Correction to the condition of enabling PMI feedback | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111232 | 348 | - | Miscellaneous corrections to 36.213 | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111229 | 349 | - | Corrections on PUSCH and PUCCH modes | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111231 | 350 | 1 | CR on UL HARQ ACK determination | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111231 | 351 | 1 | Correction on UL DMRS resources for PHICH-triggered retransmission | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111230 | 352 | - | Clarification on the common search space description | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111232 | 353 | 1 | Clarification on ambiguous DCI information between UE-specific search space and common search space for DCI formats 0 and 1A | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111229 | 354 | - | Clarification of Reference PDSCH Power for CSI-RS based CSI Feedback | 10.2.0 | 10.3.0 |
| 15/09/11 | RP-53 | RP-111230 | 355 | 2 | Corrections on reporting Channel State Information | 10.2.0 | 10.3.0 |
| 05/12/11 | RP-54 | RP-111669 | 324 | 3 | Accumulation of power control commands from DCI format 3/3A | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 357 | 1 | Miscellaneous corrections on uplink power control | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 358 | - | Corrections on N\_c^{received} | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 359 | - | Corrections on TDD PUCCH format 1b with channel selection and two configured serving cells | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 360 | - | Corrections on the notation of k and k\_m | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111668 | 361 | 1 | Corrections on PUCCH mode 2-1 | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111668 | 362 | 3 | A correction to PDSCH transmission assumption for CQI calculation | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 363 | 1 | Corrections on PUCCH Resource Notation | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111667 | 364 | - | Correction on the notation of SRS transmission comb | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 365 | - | Clarification on the HARQ-ACK procedure of TDD UL-DL configuration 5 | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 366 | 2 | Clarification on the determination of resource for PUCCH Format 1b with channel selection in TDD mode | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 367 | 1 | Correction on HARQ-ACK procedure | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 368 | - | Correction for A/N on PUSCH with W=1,2 in case of TDD channel selection | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111668 | 369 | - | Clarification of PUCCH 2-1 Operation | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111668 | 370 | 1 | Correction on PMI index | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 371 | 2 | Correction to periodic CSI reports for carrier aggregation | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 373 | 1 | Removal of square bracket in HARQ-ACK procedure | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 374 | 1 | Clarification on UE's capability of supporting PUCCH format 3 | 10.3.0 | 10.4.0 |
| 05/12/11 | RP-54 | RP-111666 | 375 | 1 | Clarifications of UE behavior on PUSCH power control | 10.3.0 | 10.4.0 |
| 28/02/12 | RP-55 | RP-120286 | 376 | 1 | RNTI Configuration associated with DL Resource Allocation Type 2 | 10.4.0 | 10.5.0 |
| 28/02/12 | RP-55 | RP-120283 | 377 | 2 | Correction for ACK/NACK related procedure in case of TDD UL-DL configuration 0 | 10.4.0 | 10.5.0 |
| 13/06/12 | RP-56 | RP-120737 | 378 | 3 | Correction of FDD channel selection HARQ-ACK and SR transmission | 10.5.0 | 10.6.0 |
| 13/06/12 | RP-56 | RP-120738 | 379 | - | Removal of description with square brackets | 10.5.0 | 10.6.0 |
| 13/06/12 | RP-56 | RP-120738 | 381 | - | Correction on transmission mode 9 with a single antenna port transmission | 10.5.0 | 10.6.0 |
| 04/09/12 | RP-57 | RP-121265 | 382 | - | Clarification of codebook subsampling for PUCCH 2-1 | 10.6.0 | 10.7.0 |
| 04/09/12 | RP-57 | RP-121266 | 383 | - | Correction to UE transmit antenna selection | 10.6.0 | 10.7.0 |
| 04/09/12 | RP-57 | RP-121264 | 384 | - | TDD HARQ-ACK procedure for PUCCH format 1b with channel selection in carrier aggregation | 10.6.0 | 10.7.0 |
| 04/09/12 | RP-57 | RP-121265 | 385 | - | Corrections for Handling CSI-RS patterns | 10.6.0 | 10.7.0 |
| 04/09/12 | RP-57 | RP-121264 | 386 | 1 | Reference serving cell for pathloss estimation | 10.6.0 | 10.7.0 |
| 04/09/12 | RP-57 | RP-121264 | 387 | - | Power control for PUCCH format 3 with single configured cell | 10.6.0 | 10.7.0 |
| 04/09/12 | RP-57 | RP-121264 | 388 | - | ACK/NACK resource in case of channel selection | 10.6.0 | 10.7.0 |
| 04/09/12 | RP-57 | RP-121274 | 380 | 4 | Introduction of an additional special subframe configuration | 10.7.0 | 11.0.0 |
| 04/09/12 | RP-57 | RP-121272 | 389 | - | Introduction of Rel-11 features | 10.7.0 | 11.0.0 |
| 04/12/12 | RP-58 | RP-121839 | 393 | - | Correction to the parameter ue-Category-v10xy | 11.0.0 | 11.1.0 |
| 04/12/12 | RP-58 | RP-121837 | 395 | - | Correction of reference signal scrambling sequence initialization for SPS in transmission mode 7 | 11.0.0 | 11.1.0 |
| 04/12/12 | RP-58 | RP-121846 | 396 | - | Finalisation for introducing Rel-11 features | 11.0.0 | 11.1.0 |
| 26/02/13 | RP-59 | RP-130254 | 398 | - | Correction on UE procedure for reporting HARQ-ACK | 11.1.0 | 11.2.0 |
| 26/02/13 | RP-59 | RP-130252 | 400 | - | Corrections for SRS power scaling in UpPTS | 11.1.0 | 11.2.0 |
| 26/02/13 | RP-59 | RP-130252 | 403 | - | CR on UE specific search and Common search space overlap on PDCCH | 11.1.0 | 11.2.0 |
| 26/02/13 | RP-59 | RP-130358 | 404 | - | Additional clarifications/corrections for introducing Rel-11 features | 11.1.0 | 11.2.0 |
| 11/06/13 | RP-60 | RP-130752 | 405 | - | Correction to EPDCCH monitoring in case of cross-carrier scheduling | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130751 | 407 | 1 | Correction on the RI bit width | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130750 | 408 | - | Correction on parallel reception of PDSCH and Msg 2 | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130747 | 409 | - | Correction on zero power CSI-RS resource configuration | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130750 | 410 | 1 | Corrections on different TDD UL-DL configurations on different bands | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130752 | 411 | - | Correction on EPDCCH PRB pair indication | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130752 | 412 | - | Correction on EPDCCH hashing function | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130752 | 413 | - | Correction on PUCCH resource determination for FDD EPDCCH | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130752 | 414 | 2 | CR on ambiguity in EPDCCH decoding candidates under two overlapped EPDCCH resource sets | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130749 | 415 | - | Removal of the case for spatial domain bundling in TDD UL/DL configuration 0 | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130752 | 416 | - | Corrections to EPDCCH PRB pair indication | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130753 | 417 | 1 | Correction to PUSCH/PUCCH transmit power after PRACH power ramping | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130747 | 418 | - | CR on RI-Reference CSI Process with Subframe Sets | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130747 | 420 | - | Correction on UE-specific RS scrambling for SPS PDSCH in TM10 | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130747 | 421 | - | CR on resolving ambiguous UE capability signaling for CoMP | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130750 | 422 | - | Correction of valid downlink subframe | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130749 | 424 | - | Correction on HARQ-ACK transmission for a UE configured with PUCCH format 3 | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130750 | 425 | - | Correction of PHICH resource for half duplex TDD UE | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130750 | 426 | - | Correction on n\_{HARQ} for TDD CA with different UL-DL configurations | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130750 | 427 | - | Correction on implicit HARQ-ACK resource determination for PUCCH format 1b with channel selection for TDD CA with different UL-DL configurations | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130750 | 428 | - | Correction on SRS power scaling with multiple TAGs | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130747 | 429 | - | Correction on MBSFN subframe configuration | 11.2.0 | 11.3.0 |
| 11/06/13 | RP-60 | RP-130749 | 430 | - | CR on SCell activation timing | 11.2.0 | 11.3.0 |
| 03/09/13 |  |  |  |  | MCC clean-up | 11.3.0 | 11.4.0 |
| 03/09/13 | RP-61 | RP-131249 | 432 | - | Correction for EPDCCH Search Space | 11.3.0 | 11.4.0 |
| 03/09/13 | RP-61 | RP-131250 | 433 | - | Correction to QCL behaviour on CRS | 11.3.0 | 11.4.0 |
| 03/09/13 | RP-61 | RP-131250 | 434 | - | Correction on PUCCH power control | 11.3.0 | 11.4.0 |
| 03/09/13 | RP-61 | RP-131248 | 435 | - | Correction on the ratio of PDSCH EPRE to CRS EPRE for TM10 | 11.3.0 | 11.4.0 |
| 03/09/13 | RP-61 | RP-131249 | 436 | - | CR on EPDCCH Search Space for Cross-Carrier Scheduling | 11.3.0 | 11.4.0 |
| 03/09/13 | RP-61 | RP-131249 | 437 | - | Correction to the UE behaviour in case of collision between PRS and EPDCCH in different CP case | 11.3.0 | 11.4.0 |
| 03/09/13 | RP-61 | RP-131249 | 438 | - | On correction to higher layer parameter name for EPDCCH resource mapping | 11.3.0 | 11.4.0 |
| 03/09/13 | RP-61 | RP-131248 | 439 | - | Correction to PDSCH mapping for CoMP | 11.3.0 | 11.4.0 |
| 03/12/13 | RP-62 | RP-131893 | 440 | 1 | Correction on parameter ue-Category | 11.4.0 | 11.5.0 |
| 03/12/13 | RP-62 | RP-131892 | 442 | 1 | Correction on determination of modulation order and transport block size | 11.4.0 | 11.5.0 |
| 03/12/13 | RP-62 | RP-132024 | 445 | 3 | Correction on CSI reporting type and parameters | 11.4.0 | 11.5.0 |
| 03/12/13 | RP-62 | RP-131894 | 446 | - | Correction on deriving the length of the non-MBSFN region | 11.4.0 | 11.5.0 |
| 03/12/13 | RP-62 | RP-131896 | 431 | 5 | Introduction of Rel 12 feature for Downlink MIMO Enhancement | 11.5.0 | 12.0.0 |
| 03/03/14 | RP-63 | RP-140286 | 447 | - | Correction to CSI Reporting | 12.0.0 | 12.1.0 |
| 03/03/14 | RP-63 | RP-140291 | 448 | - | Clarification on PUCCH Mode 1-1 for 4Tx Dual Codebook | 12.0.0 | 12.1.0 |
| 03/03/14 | RP-63 | RP-140287 | 450 | 1 | Common search space monitoring for MBMS | 12.0.0 | 12.1.0 |
| 03/03/14 | RP-63 | RP-140290 | 452 | - | Introduction of new UE categories | 12.0.0 | 12.1.0 |
| 03/03/14 | RP-63 | RP-140288 | 455 | 1 | Modification to I\_SRS = 0 for trigger type 1 SRS and TDD | 12.0.0 | 12.1.0 |
| 03/03/14 | RP-63 | RP-140289 | 458 | - | Correction to CSI processing in TM10 | 12.0.0 | 12.1.0 |
| 10/06/14 | RP-64 | RP-140858 | 459 | 1 | Clarification on PUCCH reporting type payload size | 12.1.0 | 12.2.0 |
| 10/06/14 | RP-64 | RP-140858 | 461 | - | Clarification on SRS colliding with PUCCH in the same cell when the UE is configured with multiple TAGs | 12.1.0 | 12.2.0 |
| 10/06/14 | RP-64 | RP-140858 | 462 | 1 | Clarification on SRS antenna switching | 12.1.0 | 12.2.0 |
| 10/06/14 | RP-64 | RP-140862 | 463 | - | Introduction of Rel-12 LTE-Advanced features in 36.213 | 12.1.0 | 12.2.0 |
| 10/09/14 | RP-65 | RP-141479 | 464 | - | Correction on SRS transmission for TDD-FDD CA | 12.2.0 | 12.3.0 |
| 10/09/14 | RP-65 | RP-141478 | 465 | - | Correction on beta\_{offset}^{HARQ-ACK} determination for a UE configured with two uplink power control subframe sets | 12.2.0 | 12.3.0 |
| 10/09/14 | RP-65 | RP-141478 | 466 | - | Corrections for TDD eIMTA | 12.2.0 | 12.3.0 |
| 10/09/14 | RP-65 | RP-141479 | 467 | 3 | CR on HARQ-ACK Multiplexing in PUSCH for TDD-FDD CA | 12.2.0 | 12.3.0 |
| 10/09/14 | RP-65 | RP-141474 | 469 | - | Correction to UCI embedding in case of a single serving cell and simultaneous PUSCH and PUCCH transmission | 12.2.0 | 12.3.0 |
| 10/09/14 | RP-65 | RP-141478 | 470 | - | Corrections on UL-reference UL/DL configuration | 12.2.0 | 12.3.0 |
| 10/09/14 | RP-65 | RP-141473 | 471 | - | CR for Clarification of special subframe and usage alignment | 12.2.0 | 12.3.0 |
| 10/09/14 | RP-65 | RP-141485 | 472 | - | Introduction of low-cost MTC and 256QAM features | 12.2.0 | 12.3.0 |
| 08/12/14 | RP-66 | RP-142104 | 482 | 5 | Introduction of Dual Connectivity, Small Cell Enhancements, NAICS, eIMTA, and TDD-FDD CA features | 12.3.0 | 12.4.0 |
| 08/12/14 | RP-66 | RP-142097 | 487 | 1 | Clarification of periodic CSI feedback for subband CQI and PMI | 12.3.0 | 12.4.0 |
| 08/12/14 | RP-66 | RP-142100 | 491 | - | Correction of the parameter CSIProcessIndex | 12.3.0 | 12.4.0 |
| 09/03/15 | RP-67 | RP-150366 | 492 | 2 | Introduction of D2D feature into 36.213 | 12.4.0 | 12.5.0 |
| 09/03/15 | RP-67 | RP-150363 | 494 | 1 | Correction to PUCCH procedures in case of FDD Pcell and TDD Scell in TDD-FDD CA | 12.4.0 | 12.5.0 |
| 09/03/15 | RP-67 | RP-150364 | 498 | - | Correction on higher layer parameter names for 256QAM | 12.4.0 | 12.5.0 |
| 09/03/15 | RP-67 | RP-150359 | 500 | - | TM10 CSI-IM Interference Measurements | 12.4.0 | 12.5.0 |
| 09/03/15 | RP-67 | RP-150358 | 502 | - | Clarification on common search reception related to MBMS | 12.4.0 | 12.5.0 |
| 09/03/15 | RP-67 | RP-150364 | 503 | - | Correction to Discovery in Small Cell Enhancement feature | 12.4.0 | 12.5.0 |
| 09/03/15 | RP-67 | RP-150365 | 504 | 1 | Corrections to Dual Connectivity feature | 12.4.0 | 12.5.0 |
| 15/06/15 | RP-68 | RP-150931 | 493 | 2 | Clarification on HARQ-ACK repetition | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150932 | 497 | 3 | Clarification on PUCCH Format 3 Resource Derivation for TDD UL/DL Configuration 5 | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150933 | 506 | - | Clarification on the PRACH power in subframe i2-1 for PCM2 | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150933 | 507 | - | Clarification on the MTA operation in PCM1 | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150933 | 512 | - | Correction of higher layer parameter names in dual connectivity | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150935 | 513 | 1 | Correction on UE procedure of determining subframe pool for PSCCH and PSSCH in ProSe | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150935 | 514 | 1 | Correction on UE procedure of transmitting PSCCH in ProSe | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150933 | 515 | 1 | Correction on UL Power Control for Synchronous Dual Connectivity | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150933 | 516 | 1 | Correction on UL Power Control for Asynchronous Dual Connectivity | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150937 | 517 | - | Correction to Rel-12 UE category signal name | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150936 | 520 | - | Corrections on eIMTA RRC parameter naming | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150933 | 521 | - | Correction on Closed Loop Antenna Selection for Dual Connectivity | 12.5.0 | 12.6.0 |
| 15/06/15 | RP-68 | RP-150935 | 523 | - | Alignment of Prose parameter names | 12.5.0 | 12.6.0 |
| 14/09/15 | RP-69 | RP-151470 | 525 | - | UE processing time relaxation on Type 2 Power Headroom Reporting | 12.6.0 | 12.7.0 |
| 14/09/15 | RP-69 | RP-151468 | 527 | - | Correction of ProSe parameters | 12.6.0 | 12.7.0 |
| 14/09/15 | RP-69 | RP-151471 | 528 | 2 | Clarification on power control for PCM2 | 12.6.0 | 12.7.0 |
| 07/12/15 | RP-70 | RP-152034 | 530 | 1 | Clarification of PUCCH resource allocation related to EPDCCH SCells | 12.7.0 | 12.8.0 |
| 07/12/15 | RP-70 | RP-152037 | 531 | - | Clarification on the parameter notations for eIMTA | 12.7.0 | 12.8.0 |
| 07/12/15 | RP-70 | RP-152037 | 534 | - | Correction on aperiodic CSI transmission without UL-SCH according to table 7.2.1-1C | 12.7.0 | 12.8.0 |
| 07/12/15 | RP-70 | RP-152038 | 535 | 1 | Introduction of new maximum TBS for TM9/10 | 12.7.0 | 12.8.0 |
| 07/12/15 | RP-70 | RP-152034 | 542 | - | Clarification of PHICH resource assignement related to EPDCCH scheduled PUSCH | 12.7.0 | 12.8.0 |
| 07/12/15 | RP-70 | RP-152036 | 543 | 1 | Modify max TA for dual connectivity | 12.7.0 | 12.8.0 |
| 07/12/15 | RP-70 | RP-152125 | 533 | 3 | eD2D CR for 36.213 | 12.8.0 | 13.0.0 |
| 07/12/15 | RP-70 | RP-152031 | 536 | - | Introduction of Rel 13 features for SC-PTM | 12.8.0 | 13.0.0 |
| 07/12/15 | RP-70 | RP-152026 | 537 | 2 | Introduction of LAA (PHY layer aspects) | 12.8.0 | 13.0.0 |
| 07/12/15 | RP-70 | RP-152026 | 538 | 5 | Introduction of LAA (eNB Channel Access Procedures) | 12.8.0 | 13.0.0 |
| 07/12/15 | RP-70 | RP-152027 | 539 | 1 | Introduction of Enhanced CA in Release 13 | 12.8.0 | 13.0.0 |
| 07/12/15 | RP-70 | RP-152025 | 541 | 1 | Introduction of EB/FD-MIMO | 12.8.0 | 13.0.0 |
| 26/01/16 | Post RP-70 |  |  |  | MCC update to show correct version of the spec in the headers of all subparts and get all of them aligned with coversheet | 13.0.0 | 13.0.1 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2016-03 | RAN#71 | RP-160359 | 546 | - | F | Alignment eD2D CR for 36.213 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160549 | 548 | 3 | F | Clarification on PDSCH collision with PSS/SSS/PBCH | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 550 | 1 | F | Clarification on number of PRBs for PUCCH format 4 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 554 | 2 | F | Clarification on code rate for periodic CSI transmission on PUCCH format 4 and 5 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 555 | 1 | F | Clarification on Averaging of CSI Measurements in LAA | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 559 | - | F | Limit on number of periodic CSI reports | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 560 | 1 | F | Correction on Transmission Code Rate Determination | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 562 | - | F | CR on LAA defer and sensing duration | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 563 | - | F | Correction on aperiodic CSI only PUSCH without UL-SCH | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 564 | - | F | Correction on HARQ-ACK and periodic CSI transmission | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 565 | - | F | Correction on Simultaneous HARQ-ACK and P-CSI Transmission | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 566 | 1 | F | CR on MR support in TM9 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 568 | - | F | Correction on Subsampling of Class A Codebook | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 569 | - | F | CR on definition of LAA idle sensing for periods longer than one CCA slot | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 570 | - | F | Correction on total sensing and transmission time for Japan | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 571 | - | F | Correction on common DCI detection of LAA in 36.213 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 572 | - | F | CR on valid downlink subframe definition for TM9/10 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 573 | - | F | CR on eCCE of EPDCCH for partial subframe | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 576 | - | F | Correction on cross-carrier scheduling in LAA | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 577 | - | F | Correction on QCL type B for LAA | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 578 | - | F | Correction on Class B CSI reporting | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 579 | - | F | CR on CRI reporting for one CSI-RS ports (36.213) | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 580 | - | F | Correction to the condition of CRI updating restriction | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 581 | - | F | Correction to the additional UpPTS symbols for SRS | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 582 | - | F | Clarification on PUCCH mode 1-1 configuration | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 584 | - | F | Correction on EPDCCH assignment in LAA | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 585 | - | F | CR for LAA CW reset per AC in case of K attempts at CWmax | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 586 | - | F | Corrections to RI-inheritance | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 587 | - | F | CR on CSI-RS resource in 36.213 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 588 | - | F | CR on mismatch between 36.213 and 36.331 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 589 | - | F | Correction on CSI transmission for eCA in 36.213 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 590 | - | F | Clarification on joint reports of CRI | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 591 | - | F | Correction to RI reference CSI process | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 592 | - | F | Corrections to Class B CSI reporting on PUCCH | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 594 | - | F | Correction on PUCCH transmission and (E)PDCCH disabling in eCA | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 595 | - | F | CSI-RS in DwPTS | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 596 | 1 | F | Correction on shortened PUCCH format for Rel-13 CA | 13.1.0 |
| 2016-03 | RAN#71 | RP-160357 | 598 | - | F | Correction on HARQ-ACK bit concatenation for PUCCH format 4 and 5 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 599 | - | F | Corrections for LAA Energy Detection Threshold | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 0600 | - | F | Correction on channel access procedure for DL LBT | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 0601 | - | F | Correction on CWS adjustment in LAA | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 0602 | - | F | Corrections for Type B Multi-channel access procedure for an LAA SCell | 13.1.0 |
| 2016-03 | RAN#71 | RP-160358 | 0603 | - | F | CR on Class B CQI measurement correction | 13.1.0 |
| 2016-03 | RAN#71 | RP-160360 | 0604 | 1 | F | Corrections for PDCCH and EPDCCH monitoring on an LAA SCell in 36.213 | 13.1.0 |
| 2016-03 | RAN#71 | RP-160363 | 0605 | - | A | Clarification on T\_threshold in dual connectivity | 13.1.0 |
| 2016-03 | RAN#71 | RP-160361 | 0540 | 6 | B | Introduction of further LTE Physical Layer Enhancements for MTC | 13.1.0 |
| 2016-03 | Post RAN#71 |  |  |  |  | MCC update to show correct version of the spec in the headers of all subparts and get all of them aligned with coversheet | 13.1.1 |
| 2016-06 | RAN#72 | RP-161062 | 0575 | 2 | F | Correction on SPS HARQ-ACK bit handling in case of dynamic codebook configuration of eCA in 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161063 | 0593 | 1 | F | Correction to the UE's assumption on DMRS ports | 13.2.0 |
| 2016-06 | RAN#72 | RP-161062 | 0608 | 1 | F | Correction on HARQ-ACK ordering in case of semi-static codebook configuration of eCA | 13.2.0 |
| 2016-06 | RAN#72 | RP-161062 | 0610 | 1 | F | Correction on timing for secondary cell activation/deactivation for eCA in 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161068 | 0611 | - | A | Correction on RRC parameter for configuring new TBSs | 13.2.0 |
| 2016-06 | RAN#72 | RP-161063 | 0614 | - | F | Correction to rank 5-8 FD-MIMO CSI feedback | 13.2.0 |
| 2016-06 | RAN#72 | RP-161062 | 0615 | - | F | Correction on aperiodic CSI reporting mode 1-0 and 1-1 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0616 | - | F | Correction of paging PDSCH transmission for MTC UE | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0618 | - | F | Update RRC parameter names for MTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0619 | - | F | PUCCH repetition for Msg4 for MTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0620 | - | F | MPDCCH repetition for paging and random access for MTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0621 | 1 | F | MCS field in DCI format 6-2 for paging for MTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161062 | 0622 | - | F | Coding of higher layer parameter codebooksizeDetermination-r13 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161062 | 0623 | 1 | F | Corrections on Simultaneous HARQ-ACK and P-CSI in 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161069 | 0624 | - | F | Corrections SRS dropping in CA in 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161065 | 0625 | - | D | Correction to the usage of undefined terminology "channel" | 13.2.0 |
| 2016-06 | RAN#72 | RP-161065 | 0626 | - | F | Correction on channel access procedure after an additional defer duration for DL LBT | 13.2.0 |
| 2016-06 | RAN#72 | RP-161284 | 0627 | 1 | F | Clarification for LAA CSI processing | 13.2.0 |
| 2016-06 | RAN#72 | RP-161065 | 0628 | - | F | MCS Table for Initial Partial TTI in LAA | 13.2.0 |
| 2016-06 | RAN#72 | RP-161063 | 0629 | - | F | Correction on the linkage between CSI-RS and CSI-IM for Class B | 13.2.0 |
| 2016-06 | RAN#72 | RP-161062 | 0630 | - | F | Correction for HARQ-ACK Codebook Determination in eCA | 13.2.0 |
| 2016-06 | RAN#72 | RP-161065 | 0631 | - | F | Clarification on "special subframe" for frame structure type 3 in 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161062 | 0632 | - | F | Corrections on simultaneous transmission of HARQ-ACK and SR in 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0633 | 2 | F | MDPCCH candidate overflow monitoring correction for eMTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0634 | - | F | Correction to TS 36.213 for eMTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0635 | 1 | F | Correction on M-PDCCH case definition | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0636 | - | F | Correction on CSS for MPDCCH configured by temporary C-RNTI and Type0 MPDCCH CSS resource | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0637 | 2 | F | Correction on collision of dynamically scheduled data and semi-statically scheduled data for Rel-13 eMTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0638 | 1 | F | Correction on PDSCH transmission timing for Rel-13 eMTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0639 | - | F | On the collision between eMTC SIB and MPDCCH/PDSCH in TS 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0639 | - | F | On the collision between eMTC SIB and MPDCCH/PDSCH in TS 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0640 | - | F | Collision between PUCCH format 2 and PDSCH with repetitions | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0641 | - | F | Clarification of TM1/2/6 on MBSFN subframes | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0642 | - | F | Correction of fallback behavior for TM9 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0643 | - | F | Correction on RV and MPDCCH starting position | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0644 | 1 | F | Collision between PSS/SSS/PBCH and PDSCH for MTC | 13.2.0 |
| 2016-06 | RAN#72 | RP-161065 | 0645 | - | F | CR for 36.213 on multi-channel access procedure Type A2 in LAA | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0646 | - | F | CR for TS36.213 related to 2+4 PRB set | 13.2.0 |
| 2016-06 | RAN#72 | RP-161063 | 0647 | - | F | CR on CSI-RS ID configuration for TM9 in TS 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161065 | 0649 | - | F | Initial CCA Behaviour in the Channel Access Procedure | 13.2.0 |
| 2016-06 | RAN#72 | RP-161065 | 0650 | - | F | CR on clarification for channel sensing | 13.2.0 |
| 2016-06 | RAN#72 | RP-161065 | 0651 | - | F | CR for the contention window adjustment procedure in LAA downlink channel access | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0653 | 1 | F | eMTC MPDCCH corrections for 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161064 | 0654 | - | F | Correction on search space to decode the PDCCH configured by the SC-N-RNTI | 13.2.0 |
| 2016-06 | RAN#72 | RP-161067 | 0656 | 1 | B | Introduction of NB-IoT | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0657 | - | F | Starting OFDM symbol for SIB1-BR for BL/CE UE | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0658 | - | F | Collision between SIB1-BR and SI message for BL/CE UE | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0660 | 3 | F | MPDCCH search space for random access in connected mode for BL/CE UE | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0662 | - | F | Definition of number of MPDCCH repetitions for BL/CE UE | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0663 | - | F | PRB locations for Type0 MPDCCH search space for BL/CE UE | 13.2.0 |
| 2016-06 | RAN#72 | RP-161063 | 0666 | - | F | CR on FD-MIMO codebooks (36.213) | 13.2.0 |
| 2016-06 | RAN#72 | RP-161063 | 0667 | - | F | CR on CSI-Reporting-Type in TS 36.213 | 13.2.0 |
| 2016-06 | RAN#72 | RP-161070 | 0668 | - | B | Introduction of 60ms periodicity for wideband CQI/PMI reporting | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0669 | - | F | Introduction of 60ms periodicity for wideband CQI/PMI reporting | 13.2.0 |
| 2016-06 | RAN#72 | RP-161066 | 0670 | - | F | On MPDCCH AL and search space for 8 EREGs per ECCE in TS 36.213 | 13.2.0 |
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| 2016-06 | RAN#72 | RP-161066 | 0679 | - | F | Correction on PDSCH reception timing for eMTC | 13.2.0 |
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| 2016-09 | RAN#73 | RP-161563 | 0692 | 1 | F | Corrections on NPDSCH related procedure in TS 36.213 | 13.3.0 |
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| 2016-09 | RAN#73 | RP-161560 | 0710 | - | F | Corrections on Codebooks in 36.213 | 13.3.0 |
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| 2016-09 | RAN#73 | RP-161563 | 0739 | - | F | Clarification of NB-IoT DL subframe configuration | 13.3.0 |
| 2016-09 | RAN#73 | RP-161560 | 0740 | - | F | Correction on FD-MIMO codebooks | 13.3.0 |
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| 2016-12 | RAN#74 | RP-162359 | 0747 | - | A | Correction on the determination of NPDCCH candidates | 14.1.0 |
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| 2016-12 | RAN#74 | RP-162356 | 0758 | - | A | Correction to PUCCH reporting mode 1-1 | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0759 | - | F | Correction on UL grant reception in ending partial subframe | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0760 | - | F | Correction on UL burst scheduling | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0761 | - | F | CR on PHICH operation for eLAA in 36.213 | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0762 | - | F | Correction on handling UL LBT procedure under UE power limited case | 14.1.0 |
| 2016-12 | RAN#74 | RP-162358 | 0765 | - | A | Clarification on spectral efficiency | 14.1.0 |
| 2016-12 | RAN#74 | RP-162358 | 0766 | 2 | A | Aperiodic CSI without MPDCCH frequency hopping | 14.1.0 |
| 2016-12 | RAN#74 | RP-162358 | 0768 | 1 | A | Correction on equation for MPDCCH search space and starting subframe position | 14.1.0 |
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| 2016-12 | RAN#74 | RP-162359 | 0772 | - | A | Clarification on nrs-Power related description | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0773 | - | F | Removal of LAA DRS channel access from UL Type 2 Channel Access description | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0774 | - | D | CR on UL duration and offset field in TS 36.213 | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0775 | - | F | Correction on channel access priority class according to UL LBT type indication in eLAA | 14.1.0 |
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| 2016-12 | RAN#74 | RP-162368 | 0778 | - | F | CR on UL CWS adjustment for eLAA in 36.213 | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0779 | 1 | F | CR on trigger monitoring timeline for triggered grants in eLAA | 14.1.0 |
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| 2016-12 | RAN#74 | RP-162359 | 0792 | 2 | A | Corrections on the Table 16.6-2: Type 1- NPDCCH common search space candidates for NB-IoT in TS 36.213 | 14.1.0 |
| 2016-12 | RAN#74 | RP-162359 | 0797 | - | A | Control information inconsistent handling for NB-IoT in 36.213 | 14.1.0 |
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| 2016-12 | RAN#74 | RP-162368 | 0803 | - | F | Corrections to EPDCCH candidate derivation procedure for eLAA in TS36.213 | 14.1.0 |
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| 2016-12 | RAN#74 | RP-162368 | 0805 | - | F | Correction on aperiodic CSI only transmission for LAA SCell | 14.1.0 |
| 2016-12 | RAN#74 | RP-162358 | 0807 | - | A | CR on RV Cycling for PDSCH | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0809 | 1 | F | CR on UE assumption of LBT success for determining periodic CSI reporting | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0810 | - | F | Correction on continuous transmission after the successful LBT | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0811 | - | A | CR on MCOT limits for carriers on which eNB performs Type B LBT | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0813 | - | F | CR on the UE assumption on multiple UL grants indicating a same subframe | 14.1.0 |
| 2016-12 | RAN#74 | RP-162358 | 0814 | - | A | PDSCH transmission on special subframe for eMTC | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0815 | - | F | CR on using 25us LBT for UEs on carriers without eNB Cat 4 LBT | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0816 | - | F | CR on UL resource allocation for 10MHz LAA SCell | 14.1.0 |
| 2016-12 | RAN#74 | RP-162358 | 0818 | - | A | DCI for SPS | 14.1.0 |
| 2016-12 | RAN#74 | RP-162358 | 0820 | - | A | Number of MPDCCH-PRB sets | 14.1.0 |
| 2016-12 | RAN#74 | RP-162368 | 0821 | - | F | Correction on EPDCCH candidate configuration | 14.1.0 |
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| 2016-12 | RAN#74 | RP-162368 | 0824 | - | F | Correction on PDCCH candidate adjustments | 14.1.0 |
| 2016-12 | RAN#74 | RP-162359 | 0826 | - | A | Correction on NPDCCH and NPDSCH start symbol | 14.1.0 |
| 2016-12 | RAN#74 | RP-162364 | 0827 | - | B | Introduction of SRS switching into 36.213 | 14.1.0 |
| 2016-12 | RAN#74 | RP-162365 | 0828 | - | B | Introduction of Multiuser Superposition Transmission (MUST) in 36.213 | 14.1.0 |
| 2016-12 | RAN#74 | RP-162366 | 0829 | - | F | Corrections to 36.213 on V2V | 14.1.0 |
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| 2017-03 | RAN#75 | RP-170608 | 0833 | 1 | B | Introduction of eMBMS enhancements for LTE to 36.213 sections 10-13 | 14.2.0 |
| 2017-03 | RAN#75 | RP-170610 | 0835 | - | A | Correction on NPDCCH start subframe | 14.2.0 |
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| 2017-03 | RAN#75 | RP-170609 | 0843 | - | A | I\_0 definition for RV cycling | 14.2.0 |
| 2017-03 | RAN#75 | RP-170609 | 0845 | - | A | PUCCH resource determination for M greater than 1 in eMTC | 14.2.0 |
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| 2017-03 | RAN#75 | RP-170618 | 0851 | - | F | CR on DCI blind decodes for eLAA in 36.213 | 14.2.0 |
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| 2017-03 | RAN#75 | RP-170618 | 0853 | - | F | Correction on PHR for LAA | 14.2.0 |
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| 2017-03 | RAN#75 | RP-170609 | 0857 | - | A | PUCCH collision in eMTC | 14.2.0 |
| 2017-03 | RAN#75 | RP-170618 | 0858 | - | F | Clarification on channel access procedure for SRS transmission | 14.2.0 |
| 2017-03 | RAN#75 | RP-170610 | 0860 | - | A | NPDCCH starting subframe determination in NB-IoT | 14.2.0 |
| 2017-03 | RAN#75 | RP-170615 | 0861 | 1 | F | CR for SRS switching in 36.213 | 14.2.0 |
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| 2017-03 | RAN#75 | RP-170624 | 0865 | - | B | Introduction of NB-IoT enhancements for LTE | 14.2.0 |
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| 2017-03 | RAN#75 | RP-170607 | 0867 | - | B | Introduction of eFD-MIMO into 36.213 | 14.2.0 |
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| 2017-06 | RAN#76 | RP-171195 | 0872 | - | F | Correction on UE procedure for receiving PDSCH on FeMBMS/Unicast-mixed carrier in 36.213 | 14.3.0 |
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| 2017-06 | RAN#76 | RP-171196 | 0879 | - | A | Corrections on UL resource allocation type 0 in TS 36.213 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171197 | 0881 | - | A | Timing relationship for RAR monitoring in NB-IoT | 14.3.0 |
| 2017-06 | RAN#76 | RP-171201 | 0882 | - | F | CR on two stage grant DCI field definition | 14.3.0 |
| 2017-06 | RAN#76 | RP-171201 | 0883 | - | F | Correction to SRS Triggering for LAA SCells | 14.3.0 |
| 2017-06 | RAN#76 | RP-171201 | 0884 | - | F | Correction for MCOT value on channel access priority class for UL | 14.3.0 |
| 2017-06 | RAN#76 | RP-171203 | 0885 | - | F | Correction on tables used for SCI format 1 in 36.213 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171203 | 0886 | - | F | Alignment with 36.212 | 14.3.0 |
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| 2017-06 | RAN#76 | RP-171204 | 0888 | - | F | Clarification of TBS table for PDSCH with maximum 5 MHz channel bandwidth | 14.3.0 |
| 2017-06 | RAN#76 | RP-171204 | 0889 | - | F | UL Type 4 resource allocation | 14.3.0 |
| 2017-06 | RAN#76 | RP-171194 | 0890 | - | F | Corrections on PUCCH reporting type payload size in 36.213 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171194 | 0891 | - | F | Correction on CSI relaxation for aperiodic CSI-RS | 14.3.0 |
| 2017-06 | RAN#76 | RP-171210 | 0892 | - | B | Introduction of new maximum TBS for DL 256QAM | 14.3.0 |
| 2017-06 | RAN#76 | RP-171192 | 0893 | 1 | F | Removal of Table 8.6.1-4 in 36.213 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171206 | 0894 | - | F | Modulation overriding in video-voice enhancements | 14.3.0 |
| 2017-06 | RAN#76 | RP-171194 | 0895 | - | F | CR on CSI-RS resource activation | 14.3.0 |
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| 2017-06 | RAN#76 | RP-171194 | 0899 | - | F | Corrections to 36.213 for Rel-14 eFD-MIMO | 14.3.0 |
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| 2017-06 | RAN#76 | RP-171204 | 0905 | - | F | Corrections on the UL resource allocation type 4 in TS 36.213 | 14.3.0 |
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| 2017-06 | RAN#76 | RP-171193 | 0909 | - | A | Determination of PUCCH format selection depending on number of HARQ-ACK, CSI and SR bits | 14.3.0 |
| 2017-06 | RAN#76 | RP-171199 | 0910 | 2 | F | Miscellaneous corrections to 36.213 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171197 | 0913 | - | A | Correction on 3.75 kHz NPUSCH format 2 transmission | 14.3.0 |
| 2017-06 | RAN#76 | RP-171203 | 0916 | - | F | CR for skipped subframe handling for shorter periodicity in PC5-based V2V | 14.3.0 |
| 2017-06 | RAN#76 | RP-171196 | 0918 | - | A | Clarification of the #repetitions used for msg3 retransmissions | 14.3.0 |
| 2017-06 | RAN#76 | RP-171196 | 0919 | - | A | CR on MPDCCH PRB Sets – Rel-14 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171196 | 0921 | 1 | A | Correction of RAR window definition in CE mode B | 14.3.0 |
| 2017-06 | RAN#76 | RP-171203 | 0925 | - | F | Correction of UE behavior to meet Crlimit | 14.3.0 |
| 2017-06 | RAN#76 | RP-171204 | 0926 | - | F | Correction on HARQ-ACK bundling and dynamic HARQ-ACK timing in 36.213 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171200 | 0927 | - | F | Corrections on Power Control for SRS Switching | 14.3.0 |
| 2017-06 | RAN#76 | RP-171210 | 0929 | - | F | Corrections on the numbering of the tables in 8.0 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171192 | 0930 | 1 | F | Corrections on PRB scaling for PUSCH in UpPTS | 14.3.0 |
| 2017-06 | RAN#76 | RP-171194 | 0931 | - | F | CR on CSR for CSI feedback for semi-OL transmission | 14.3.0 |
| 2017-06 | RAN#76 | RP-171196 | 0933 | - | A | Clarification of RV Cycling in the presence of invalid SFs | 14.3.0 |
| 2017-06 | RAN#76 | RP-171196 | 0935 | - | A | Correction of the calculation of the #RV-blocks for a given PDSCH | 14.3.0 |
| 2017-06 | RAN#76 | RP-171196 | 0937 | - | A | Clarification for the overlap of UL TA update and retuning gaps for BL/CE UEs | 14.3.0 |
| 2017-06 | RAN#76 | RP-171196 | 0939 | - | A | Correction on starting OFDM symbol for MPDCCH and PDSCH in special subframe | 14.3.0 |
| 2017-06 | RAN#76 | RP-171203 | 0941 | - | F | Correction on abbreviation of Uplink SPS RNTI and Sidelink SPS RNTI in 36.213 | 14.3.0 |
| 2017-06 | RAN#76 | RP-171205 | 0942 | - | F | Timing relationships for 2 HARQ processes | 14.3.0 |
| 2017-06 | RAN#76 | RP-171203 | 0940 | - | F | CR on skipped subframe handling for partial sensing | 14.3.0 |
| 2017-09 | RAN#77 | RP-171646 | 0945 | 1 | F | Clarification of Type1A-CSS candidates | 14.4.0 |
| 2017-09 | RAN#77 | RP-171642 | 0950 | 1 | F | Correction for UCI transmission on LAA sCell | 14.4.0 |
| 2017-09 | RAN#77 | RP-171639 | 0953 | - | A | Correction on MPDCCH search space with CRC scrambled by the C-RNTI outside the random access procedure | 14.4.0 |
| 2017-09 | RAN#77 | RP-171644 | 0955 | - | F | Corrections to Mode-3 scheduling | 14.4.0 |
| 2017-09 | RAN#77 | RP-171638 | 0956 | - | F | CSI periodicity relationship between eMIMO-Types in hybrid CSI | 14.4.0 |
| 2017-09 | RAN#77 | RP-171637 | 0958 | - | A | Correction on PUCCH format 3 information for eCA | 14.4.0 |
| 2017-09 | RAN#77 | RP-171642 | 0959 | - | F | Correction on periodic CSI reporting for LAA SCell | 14.4.0 |
| 2017-09 | RAN#77 | RP-171649 | 0961 | - | A | Corrections on Class A Codebook in 36.213 | 14.4.0 |
| 2017-09 | RAN#77 | RP-171644 | 0962 | - | F | CR on definition of sensing window | 14.4.0 |
| 2017-09 | RAN#77 | RP-171644 | 0963 | 1 | F | CR on subframe index for PSCCH re-transmission in mode 3 | 14.4.0 |
| 2017-09 | RAN#77 | RP-171636 | 0964 | - | F | Correct RRC parameter for UL 256QAM | 14.4.0 |
| 2017-09 | RAN#77 | RP-171637 | 0966 | - | A | Maximum Code Rate applicability for UCI reporting over PUSCH | 14.4.0 |
| 2017-09 | RAN#77 | RP-171649 | 0968 | - | A | PUCCH priority for CSI report types 7-8-9-10 | 14.4.0 |
| 2017-09 | RAN#77 | RP-171645 | 0969 | - | F | Correction on TBS determination for PDSCH in CE mode B | 14.4.0 |
| 2017-09 | RAN#77 | RP-171650 | 0973 | - | A | SRS dropping for simultaneous SRS and PUSCH in intraband CA | 14.4.0 |
| 2017-09 | RAN#77 | RP-171637 | 0975 | - | A | PUCCH Format 4-5 collision with SRS | 14.4.0 |
| 2017-09 | RAN#77 | RP-171646 | 0976 | - | F | Search space monitoring | 14.4.0 |
| 2017-09 | RAN#77 | RP-171646 | 0977 | - | F | Clarification on NPDCCH monitoring for Rel-14 2-HARQ process UE | 14.4.0 |
| 2017-09 | RAN#77 | RP-171646 | 0978 | - | F | Correction of RAR window timing definition in NB-IoT | 14.4.0 |
| 2017-12 | RAN#78 | RP-172677 | 0979 | 1 | F | PUSCH and SRS Transmission in UpPTS | 14.5.0 |
| 2017-12 | RAN#78 | RP-172682 | 0981 | - | F | CR on CSI report reference subframe for an LAA SCell | 14.5.0 |
| 2017-12 | RAN#78 | RP-172679 | 0983 | - | D | Renaming of duplicated table 7.2.1-1A | 14.5.0 |
| 2017-12 | RAN#78 | RP-172681 | 0985 | 1 | A | Corrections of parameter names for NB-IoT | 14.5.0 |
| 2017-12 | RAN#78 | RP-172686 | 0986 | 1 | F | Clarification on timing relationships of 2 HARQ process | 14.5.0 |
| 2017-12 | RAN#78 | RP-172680 | 0987 | - | A | TBS for TDD special subframe for BL/CE UE without repetition | 14.5.0 |
| 2017-12 | RAN#78 | RP-172680 | 0989 | - | A | Non-repeated PUCCH SR transmissions on invalid UL subframes | 14.5.0 |
| 2017-12 | RAN#78 | RP-172679 | 0990 | - | F | Clarification on supporting lower frequency domain density for Class A NZP CSI-RS | 14.5.0 |
| 2017-12 | RAN#78 | RP-172685 | 0991 | - | F | Corrections on HARQ-ACK bundling | 14.5.0 |
| 2017-12 | RAN#78 | RP-172681 | 0997 | - | A | Typo correction for table 16.5.1.2.1-1 | 14.5.0 |
| 2017-12 | RAN#78 | RP-172678 | 0999 | - | A | Usage of PUCCH format 3 for with more than 5 CC | 14.5.0 |
| 2017-12 | RAN#78 | RP-172684 | 1000 | - | F | Correction on sidelink index field name in DCI format 5A for V2V in 36.213 | 14.5.0 |
| 2017-12 | RAN#78 | RP-172685 | 1001 | - | F | Correction for modulation determination under larger TBS for random access response grant | 14.5.0 |
| 2017-12 | RAN#78 | RP-172692 | 1002 | - | F | Correction on higher layer parameter for eVoLTE | 14.5.0 |
| 2017-12 | RAN#78 | RP-172691 | 1003 | - | F | Correction for dropping rules in intra-band SRS carrier switching | 14.5.0 |
| 2017-12 | RAN#78 | RP-172677 | 1004 | - | F | Change request for UE behaviour under special subframe configuration 10 | 14.5.0 |
| 2017-12 | RAN#78 | RP-172679 | 1005 | - | F | Correction on the scale factor for semi-OL rank-1 | 14.5.0 |
| 2017-12 | RAN#78 | RP-172686 | 1008 | - | F | Correction of NRS-CRS power offset configuration for NB-IoT | 14.5.0 |
| 2017-12 | RAN#78 | RP-172686 | 1009 | - | F | Clarification of carrier indication in DCI format N1 in NB-IoT | 14.5.0 |
| 2017-12 | RAN#78 | RP-172686 | 1010 | - | F | Clarification on 2 HARQ process applicability to UE-specific search space | 14.5.0 |
| 2017-12 | RAN#78 | RP-172686 | 1011 | - | F | Correction of interference in NB-IoT RACH procedure | 14.5.0 |
| 2017-12 | RAN#78 | RP-172693 | 0992 | 1 | B | Introduction of shortened processing time and shortened TTI into 36.213, s00-s05 | 15.0.0 |
| 2017-12 | RAN#78 | RP-172693 | 0993 | 1 | B | Introduction of shortened processing time and shortened TTI into 36.213, s06-s09 | 15.0.0 |
| 2017-12 | RAN#78 | RP-172693 | 0994 | 1 | B | Introduction of shortened processing time and shortened TTI into 36.213, s10-s13 | 15.0.0 |
| 2018-03 | RAN#79 | RP-180195 | 0995 | 2 | B | Introduction of feCoMP into 36.213 | 15.1.0 |
| 2018-03 | RAN#79 | RP-180201 | 1013 | 2 | B | Introducing support for EN-DC Coexistence into TS36.213 s00-s05 | 15.1.0 |
| 2018-03 | RAN#79 | RP-180201 | 1014 | 2 | B | Introducing support for EN-DC Coexistence into TS36.213 s06-s09 | 15.1.0 |
| 2018-03 | RAN#79 | RP-180201 | 1015 | 3 | B | Introducing support for EN-DC Coexistence into TS36.213 s10-s13 | 15.1.0 |
| 2018-03 | RAN#79 | RP-180194 | 1030 | - | A | Correction on CSI reporting for Class B K>1 | 15.1.0 |
| 2018-03 | RAN#79 | RP-180191 | 1032 | - | A | Clarification on UL power control for NB-IoT | 15.1.0 |
| 2018-03 | RAN#79 | RP-180188 | 1035 | - | A | Multiple CSI reports for eCA | 15.1.0 |
| 2018-03 | RAN#79 | RP-180194 | 1036 | - | A | Correction on CSI reporting for Class B K=1 | 15.1.0 |
| 2018-03 | RAN#79 | RP-180190 | 1037 | - | A | Correction to determination of number of PUCCH repetitions for BL/CE UE | 15.1.0 |
| 2018-03 | RAN#79 | RP-180192 | 1038 | - | A | Correction on PUCCH resource determination in HARQ-ACK bundling | 15.1.0 |
| 2018-03 | RAN#79 | RP-180192 | 1039 | - | A | Correction on higher layer parameter *schedulingInfoSIB1-BR-r13* | 15.1.0 |
| 2018-03 | RAN#79 | RP-180187 | 1040 | - | A | Correction on DwPTS usage in special subframe configuration 10 | 15.1.0 |
| 2018-03 | RAN#79 | RP-180196 | 1041 | - | A | UCI multiplexing for eVoLTE | 15.1.0 |
| 2018-03 | RAN#79 | RP-180198 | 1042 | - | A | Corrections for antenna switching | 15.1.0 |
| 2018-03 | RAN#79 | RP-180193 | 1043 | - | A | Correction on Msg3 power control | 15.1.0 |
| 2018-03 | RAN#79 | RP-180190 | 1048 | - | A | SPS for eMTC | 15.1.0 |
| 2018-06 | RAN#80 | RP-181171 | 1045 | 1 | A | Support of early contention resolution | 15.2.0 |
| 2018-06 | RAN#80 | RP-181170 | 1049 | 2 | F | Corrections for shortened processing time and shortened TTI in 36.213, s00-s05 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181170 | 1050 | 2 | F | Corrections for shortened processing time and shortened TTI in 36.213, s06-s07 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181170 | 1051 | 2 | F | Corrections for shortened processing time and shortened TTI in 36.213, s10-s13 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181170 | 1052 | 1 | F | Corrections for shortened processing time and shortened TTI in 36.213, s14-xx | 15.2.0 |
| 2018-06 | RAN#80 | RP-181173 | 1053 | 1 | B | Introduction of enhancements for high capacity stationary wireless link and introduction of 1024 QAM for LTE to 36.213 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181180 | 1054 | 1 | B | Introduction of Enhancements to LTE operation in unlicensed spectrum into 36.213 s00-s05 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181180 | 1055 | 2 | B | Introduction of Enhancements to LTE operation in unlicensed spectrum into 36.213 s06-s09 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181180 | 1057 | - | B | Introduction of Enhancements to LTE operation in unlicensed spectrum into 36.213 s14-xx | 15.2.0 |
| 2018-06 | RAN#80 | RP-181162 | 1060 | - | A | Correction on number of subframes for semistatic codebook determination and transmission over PUSCH | 15.2.0 |
| 2018-06 | RAN#80 | RP-181165 | 1063 | - | A | Correction on TBS determination for msg 3 retransmission and CSS for fallback | 15.2.0 |
| 2018-06 | RAN#80 | RP-181181 | 1065 | - | A | Clarification of Msg3 power control in NB-IoT | 15.2.0 |
| 2018-06 | RAN#80 | RP-181161 | 1067 | - | A | On the configuration of UL 256QAM | 15.2.0 |
| 2018-06 | RAN#80 | RP-181179 | 1069 | - | A | Correction on look-ahead for SRS carrier switching | 15.2.0 |
| 2018-06 | RAN#80 | RP-181175 | 1070 | - | B | Introduction of Enhancing CA Utilization into 36.213 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181181 | 1072 | - | A | Clarification of NPUSCH uplink compensation gaps for 2 HARQ processes | 15.2.0 |
| 2018-06 | RAN#80 | RP-181182 | 1073 | - | B | Introduction of reduced control plane latency | 15.2.0 |
| 2018-06 | RAN#80 | RP-181170 | 1074 | 1 | F | Corrections for shortened processing time and shortened TTI in 36.213, s08-s09 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181182 | 1075 | 1 | B | Introduction of SRS antenna switching for 4 ports in TS36.213 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181162 | 1078 | - | A | Correction of a typo further to CR0594 faulty implementation | 15.2.0 |
| 2018-06 | RAN#80 | RP-181162 | 1081 | - | A | Clarification on beta offset for more than 22 HARQ-ACK bits | 15.2.0 |
| 2018-06 | RAN#80 | RP-181162 | 1084 | - | A | Clarification on simultaneousAckNackAndCQI for format 4-5 and format 3 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181162 | 1087 | - | A | Clarification on PUCCH formats | 15.2.0 |
| 2018-06 | RAN#80 | RP-181164 | 1090 | - | A | Correction on PUCCH configuration with CEModeA or CEModeB | 15.2.0 |
| 2018-06 | RAN#80 | RP-181178 | 1092 | - | A | Correction to timing advance | 15.2.0 |
| 2018-06 | RAN#80 | RP-181169 | 1094 | - | A | Correction on RV determination for eVoLTE | 15.2.0 |
| 2018-06 | RAN#80 | RP-181165 | 1096 | - | A | Corrections in Physical Resource Block numbering to RA Type0 for FeMTC UEs | 15.2.0 |
| 2018-06 | RAN#80 | RP-181182 | 1097 | - | B | Introduction of advanced CSI CBSR in TS 36.213 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181181 | 1099 | - | A | Clarification of NPUSCH reception in 2 NB-IoT HARQ processes | 15.2.0 |
| 2018-06 | RAN#80 | RP-181175 | 1100 | - | B | Short CQI Reporting for EuCA | 15.2.0 |
| 2018-06 | RAN#80 | RP-181174 | 1101 | 1 | B | Introduction of even further enhanced MTC for LTE in 36.213, s00-s05 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181174 | 1102 | 1 | B | Introduction of even further enhanced MTC for LTE in 36.213, s06-s07 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181174 | 1103 | 1 | B | Introduction of even further enhanced MTC for LTE in 36.213, s08-s09 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181166 | 1104 | 1 | B | Introduction of Rel-15 Further NB-IoT enhancements in 36.213, s14 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181182 | 1105 | - | B | Introduction of modulation enhancements | 15.2.0 |
| 2018-06 | RAN#80 | RP-181168 | 1106 | - | F | Corrections to feCoMP in 36.213, s06-s07 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181176 | 1107 | - | B | Addition of V2X Phase 2 based on LTE in 36.213, s14 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181177 | 1108 | - | B | Introduction of HRLLC for LTE in 36.213, s07-1 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181177 | 1109 | - | B | Introduction of HRLLC for LTE in 36.213, s07-3 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181177 | 1110 | - | B | Introduction of HRLLC in 36.213, s08 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181177 | 1111 | - | B | Introduction of HRLLC in 36.213, s09 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181177 | 1112 | - | B | Introduction of HRLLC in 36.213, s10 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181277 | 1113 | - | B | Introduction of Aerial for LTE in 36.213, s00-s05 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181172 | 1114 | - | F | Correction for EN-DC Coexistence into TS36.213 s06-s07 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181172 | 1115 | - | F | Correction for EN-DC Coexistence into TS36.213 s08-s09 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181172 | 1116 | - | F | Correction for EN-DC Coexistence into TS36.213 s00-s05 | 15.2.0 |
| 2018-06 | RAN#80 | RP-181172 | 1117 | - | F | Correction for EN-DC Coexistence into TS36.213 s00-s05 | 15.2.0 |
| 2018-09 | RAN#81 | RP-181785 | 1118 | - | F | Correction on CRI definition in 36.213 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181781 | 1123 | - | A | PRG for eMTC | 15.3.0 |
| 2018-09 | RAN#81 | RP-181779 | 1126 | - | A | Correction on TDD HARQ-ACK reporting procedure for different UL/DL configurations | 15.3.0 |
| 2018-09 | RAN#81 | RP-181779 | 1128 | - | A | Correction on PUCCH format 4 HARQ-ACK procedure without adaptive codebook | 15.3.0 |
| 2018-09 | RAN#81 | RP-181784 | 1131 | - | A | Correction to PDSCH RE mapping in TM10 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181780 | 1133 | - | A | Correction on advanced CSI codebook | 15.3.0 |
| 2018-09 | RAN#81 | RP-181794 | 1137 | - | A | Corrections related to capabilities for SRS Carrier Switching | 15.3.0 |
| 2018-09 | RAN#81 | RP-181788 | 1139 | - | A | Capability for FeMBMS | 15.3.0 |
| 2018-09 | RAN#81 | RP-181778 | 1141 | - | A | SRS transmission in UpPTS for special subframe configuration 10 | 15.3.0 |
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| 2018-09 | RAN#81 | RP-181797 | 1145 | 1 | F | Corrections related to modulation enhancements | 15.3.0 |
| 2018-09 | RAN#81 | RP-181790 | 1146 | - | F | Applicability of 1024QAM to SPS C-RNTI | 15.3.0 |
| 2018-09 | RAN#81 | RP-181790 | 1147 | - | F | Removal of R\_CSI from 1024QAM CQI table | 15.3.0 |
| 2018-09 | RAN#81 | RP-181786 | 1149 | - | A | Clarification for antenna selection | 15.3.0 |
| 2018-09 | RAN#81 | RP-181800 | 1153 | - | A | Change request on UE transmit antenna selection | 15.3.0 |
| 2018-09 | RAN#81 | RP-181797 | 1154 | - | B | Change request on 1T2R antenna switching of SRS | 15.3.0 |
| 2018-09 | RAN#81 | RP-181795 | 1155 | - | F | Correction to AUL-UCI resource allocation in 36.213 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181782 | 1157 | - | A | Correction for HARQ-ACK delay in eMTC | 15.3.0 |
| 2018-09 | RAN#81 | RP-181787 | 1158 | - | F | Corrections for shortened processing time and shortened TTI in 36.213, s00-s05 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181787 | 1159 | - | F | Corrections for shortened processing time and shortened TTI in 36.213, s06-s07 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181787 | 1160 | - | F | Corrections for shortened processing time and shortened TTI in 36.213, s08-s09 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181787 | 1161 | - | F | Corrections for shortened processing time and shortened TTI in 36.213, s10-s13 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181792 | 1162 | - | F | Correction to V2X Phase 2 based on LTE in 36.213, s14 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181791 | 1163 | - | D | Corrections to even further enhanced MTC for LTE in 36.213, s00-s05 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181791 | 1164 | - | F | Corrections to even further enhanced MTC for LTE in 36.213, s06-s07 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181791 | 1165 | - | F | Corrections to even further enhanced MTC for LTE in 36.213, s08-s09 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181783 | 1166 | - | D | Editorial corrections to Rel-15 Further NB-IoT enhancements in 36.213, s2 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181783 | 1167 | - | F | Corrections to Rel-15 Further NB-IoT enhancements in 36.213, s14 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181793 | 1168 | - | F | Corrections to HRLLC in 36.213, s00-s05 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181793 | 1169 | - | F | Corrections to HRLLC in 36.213, s06-s07 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181793 | 1170 | - | F | Corrections to HRLLC in 36.213, s08-s09 | 15.3.0 |
| 2018-09 | RAN#81 | RP-181791 | 1171 | - | F | Corrections to even further enhanced MTC for LTE in 36.213, s14-xx | 15.3.0 |
| 2018-12 | RAN#82 | RP-182520 | 1174 | - | A | Correction for Type 6 report for FD-MIMO | 15.4.0 |
| 2018-12 | RAN#82 | RP-182518 | 1176 | - | A | Correction on PDSCH RE mapping around aperiodic zero power CSI-RS | 15.4.0 |
| 2018-12 | RAN#82 | RP-182528 | 1178 | - | A | Correction on NB-IoT DL subframe definition on non-anchor carriers | 15.4.0 |
| 2018-12 | RAN#82 | RP-182527 | 1180 | - | A | HARQ reference configuration for SRS carrier switching | 15.4.0 |
| 2018-12 | RAN#82 | RP-182517 | 1182 | - | A | Aperiodic CSI report for PUSCH in UpPTS | 15.4.0 |
| 2018-12 | RAN#82 | RP-182522 | 1183 | - | F | Correction on subslot-SPUCCH resource for formats 1a and 1b | 15.4.0 |
| 2018-12 | RAN#82 | RP-182522 | 1184 | - | F | Corrections related to CSI update capability for sTTI | 15.4.0 |
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| 2018-12 | RAN#82 | RP-182526 | 1186 | - | F | Validation of SPS for one UL SPS configuration | 15.4.0 |
| 2018-12 | RAN#82 | RP-182526 | 1187 | - | F | On activation of UL SPS configuration | 15.4.0 |
| 2018-12 | RAN#82 | RP-182517 | 1189 | - | A | CSI reference resource with crs-less-ssp10 | 15.4.0 |
| 2018-12 | RAN#82 | RP-182526 | 1190 | - | F | Corrections on subframe-PDSCH repetition with eIMTA | 15.4.0 |
| 2018-12 | RAN#82 | RP-182524 | 1191 | 2 | F | Corrections to even further enhanced MTC for LTE in 36.213, s06-s07 | 15.4.0 |
| 2018-12 | RAN#82 | RP-182524 | 1192 | 2 | F | Corrections to even further enhanced MTC for LTE in 36.213, s08-s09 | 15.4.0 |
| 2018-12 | RAN#82 | RP-182519 | 1193 | 2 | F | Corrections to Rel-15 Further NB-IoT enhancements in 36.213, s14-xx | 15.4.0 |
| 2018-12 | RAN#82 | RP-182527 | 1195 | - | A | Correction for SRS triggering for SRS carrier switching | 15.4.0 |
| 2018-12 | RAN#82 | RP-182527 | 1197 | - | A | Applicability of 1 and 2 bit field for DCI format 3B | 15.4.0 |
| 2018-12 | RAN#82 | RP-182526 | 1198 | - | F | Correction on slot-PDSCH repetition for TDD | 15.4.0 |
| 2018-12 | RAN#82 | RP-182526 | 1199 | - | F | Correction on DCI validation for UL SPS | 15.4.0 |
| 2018-12 | RAN#82 | RP-182529 | 1200 | - | F | Correction on references to MCS table | 15.4.0 |
| 2018-12 | RAN#82 | RP-182526 | 1201 | - | F | Corrections on UL SPS repetition | 15.4.0 |
| 2018-12 | RAN#82 | RP-182521 | 1202 | - | F | Correction on CQI definition for feCoMP in 36.213 | 15.4.0 |
| 2018-12 | RAN#82 | RP-182527 | 1204 | 1 | A | Correction on look-ahead for PHR determination in SRS carrier switching | 15.4.0 |
| 2018-12 | RAN#82 | RP-182525 | 1205 | - | F | Correction on resource exclusion procedure for V2X Phase 2 | 15.4.0 |
| 2018-12 | RAN#82 | RP-182524 | 1206 | 1 | F | Corrections to even further enhanced MTC for LTE in 36.213, s00-s05 | 15.4.0 |
| 2018-12 | RAN#82 | RP-182524 | 1207 | 1 | F | Corrections to even further enhanced MTC for LTE in 36.213, s10-s13 | 15.4.0 |
| 2018-12 | RAN#82 | RP-182525 | 1208 | - | F | CR on sensing and reporting for mode 3 in Rel-15 eV2X | 15.4.0 |
| 2019-03 | RAN#83 | RP-190434 | 1210 | - | A | Correction of higher layer signalling for special subframe configuration 10 | 15.5.0 |
| 2019-03 | RAN#83 | RP-190439 | 1212 | - | A | Priority rules for SRS carrier switching | 15.5.0 |
| 2019-03 | RAN#83 | RP-190439 | 1214 | - | A | Support of 6-symbol SRS in UpPTS | 15.5.0 |
| 2019-03 | RAN#83 | RP-190445 | 1216 | - | A | Corrections for VoLTE enhancements | 15.5.0 |
| 2019-03 | RAN#83 | RP-190443 | 1219 | - | A | Correction for TDD UL/DL configuration 0 and PUSCH with repetitions | 15.5.0 |
| 2019-03 | RAN#83 | RP-190445 | 1221 | - | A | Power control for PUSCH enhancements | 15.5.0 |
| 2019-03 | RAN#83 | RP-190437 | 1222 | - | F | Correction on the MCS index range for DCI format 6-1A | 15.5.0 |
| 2019-03 | RAN#83 | RP-190437 | 1223 | - | F | Edge PRB restriction for flexible starting PUSCH PRB for LTE-MTC | 15.5.0 |
| 2019-03 | RAN#83 | RP-190438 | 1225 | - | A | Correction on PSSCH resource pool determination in 36.213 | 15.5.0 |
| 2019-03 | RAN#83 | RP-190443 | 1228 | - | A | UL Delay for CE Mode B | 15.5.0 |
| 2019-03 | RAN#83 | RP-190446 | 1229 | - | F | Introduction of SUO Case 1 for NE-DC as Rel-15 late drop | 15.5.0 |
| 2019-03 | RAN#83 | RP-190436 | 1230 | - | F | Corrections on CSI update capability for sTTI | 15.5.0 |
| 2019-03 | RAN#83 | RP-190436 | 1231 | - | F | Correction on type 2 power headroom | 15.5.0 |
| 2019-03 | RAN#83 | RP-190436 | 1232 | - | F | Correction on the 1ms HARQ-ACK transmission for the collision between sPUSCH and PUCCH/PUSCH | 15.5.0 |
| 2019-03 | RAN#83 | RP-190435 | 1233 | - | F | Correction on NPRACH format 2 configuration presence | 15.5.0 |
| 2019-03 | RAN#83 | RP-190441 | 1235 | - | A | Power control for RACH-less HO | 15.5.0 |
| 2019-03 | RAN#83 | RP-190445 | 1237 | - | A | Correction for DCI 0C and special subframe configuration 10 | 15.5.0 |
| 2019-03 | RAN#83 | RP-190445 | 1239 | - | A | HARQ ID for asynchronous HARQ with DCI format 0 | 15.5.0 |
| 2019-03 | RAN#83 | RP-190442 | 1241 | - | A | On MPDCCH USS/CSS differentiation | 15.5.0 |
| 2019-03 | RAN#83 | RP-190437 | 1242 | - | F | EPRE for RSS | 15.5.0 |
| 2019-03 | RAN#83 | RP-190446 | 1243 | - | F | Correction on UL HARQ for EN-DC with SUO Case 1 | 15.5.0 |
| 2019-06 | RAN#84 | RP-191271 | 1244 | - | F | DCI formats for alternative TBS in 1024QAM | 15.6.0 |
| 2019-06 | RAN#84 | RP-191279 | 1245 | - | F | (Late drop) Correction on UL HARQ for NE-DC with SUO Case 1 | 15.6.0 |
| 2019-06 | RAN#84 | RP-191268 | 1247 | - | A | Dropping rule for PUSCH in UpPTS + aperiodic SRS + periodic SRS | 15.6.0 |
| 2019-06 | RAN#84 | RP-191270 | 1248 | - | F | Corrections related to CSI feedback with 64-QAM | 15.6.0 |
| 2019-06 | RAN#84 | RP-191269 | 1249 | - | F | Correction on NB-IoT SPS power control | 15.6.0 |
| 2019-06 | RAN#84 | RP-191272 | 1252 | - | A | Correction for overlapping MPDCCH search spaces | 15.6.0 |
| 2019-06 | RAN#84 | RP-191272 | 1255 | 1 | A | On set of candidates for different ALs for MPDCCH in USS | 15.6.0 |
| 2019-06 | RAN#84 | RP-191270 | 1256 | - | F | EPRE for MWUS | 15.6.0 |
| 2019-06 | RAN#84 | RP-191269 | 1257 | 1 | F | Parameter Correction in NPUSCH power control equation and Enhanced power headroom set for NB-IoT | 15.6.0 |
| 2019-06 | RAN#84 | RP-191276 | 1260 | - | A | Clarification on Class A periodic CSI reporting using PUCCH | 15.6.0 |
| 2019-06 | RAN#84 | RP-191269 | 1261 | - | F | Correction on timing relationship for UE configured with EDT | 15.6.0 |
| 2019-06 | RAN#84 | RP-191279 | 1262 | - | F | Correction on calculation of Multiple Entry PHR for EN-DC and NE-DC | 15.6.0 |
| 2019-09 | RAN#85 | RP-191938 | 1263 | - | F | Correction on maximum number of HARQ processes for Case 1 HARQ timing | 15.7.0 |
| 2019-09 | RAN#85 | RP-191945 | 1264 | - | F | TBS scaling with configuration of different modulation orders | 15.7.0 |
| 2019-09 | RAN#85 | RP-191935 | 1266 | - | A | Support of MPDCCH in CRS-less ssp10 | 15.7.0 |
| 2019-09 | RAN#85 | RP-191945 | 1267 | 1 | F | Correction on higher layer parameter configuring short TTI length in 36.213 | 15.7.0 |
| 2019-09 | RAN#85 | RP-191936 | 1268 | - | F | Correction on high layer parameters related to EDT and SR | 15.7.0 |
| 2019-09 | RAN#85 | RP-191947 | 1270 | - | A | Correction on UE procedure for transmitting PSCCH in mode 3 | 15.7.0 |
| 2019-09 | RAN#85 | RP-191938 | 1271 | - | F | Correction on calculation of Multiple Entry PHR for EN-DC and NE-DC | 15.7.0 |
| 2019-12 | RAN#86 | RP-192620 | 1274 | - | A | Clarification to postponing in subframes that are not BL/CE subframes | 15.8.0 |
| 2019-12 | RAN#86 | RP-192619 | 1276 | - | A | Correction on repetition number of MPDCCH with HARQ-ACK bundling | 15.8.0 |
| 2019-12 | RAN#86 | RP-192619 | 1278 | - | A | Correction to HARQ-ACK delay | 15.8.0 |
| 2019-12 | RAN#86 | RP-192621 | 1279 | - | F | Correction on antenna switching parameter in UE sounding procedure in 36.213 | 15.8.0 |
| 2019-12 | RAN#86 | RP-192630 | 1280 | - | F | Correction on SPDCCH monitoring for TS 36.213 | 15.8.0 |
| 2019-12 | RAN#86 | RP-192633 | 1281 | - | F | NPDCCH start position for special subframe | 15.8.0 |
| 2019-12 | RAN#86 | RP-192622 | 1282 | - | F | Correction on PUSCH scheduling with CSS for Case 1 HARQ timing | 15.8.0 |
| 2019-12 | RAN#86 | RP-192618 | 1283 | - | F | Correction to 64-QAM TBS determination for eMTC | 15.8.0 |
| 2019-12 | RAN#86 | RP-192619 | 1285 | - | A | Clarification for PUCCH resource determination with HARQ-ACK bundling | 15.8.0 |
| 2019-12 | RAN#86 | RP-192630 | 1286 | - | F | Correction on TPC accumulation reset for short TTI | 15.8.0 |
| 2019-12 | RAN#86 | RP-192647 | 1287 | - | B | Introduction of Additional MTC Enhancements for LTE in 36.213 s00-s05 | 16.0.0 |
| 2019-12 | RAN#86 | RP-192647 | 1288 | - | B | Introduction of Additional MTC Enhancements for LTE in 36.213 s06-s07 | 16.0.0 |
| 2019-12 | RAN#86 | RP-192647 | 1289 | - | B | Introduction of Additional MTC Enhancements for LTE in 36.213 s08-s09 | 16.0.0 |
| 2019-12 | RAN#86 | RP-192647 | 1290 | - | B | Introduction of Additional MTC Enhancements for LTE in 36.213 s14-xx | 16.0.0 |
| 2019-12 | RAN#86 | RP-192648 | 1291 | - | B | Introduction of Additional enhancements for NB-IoT | 16.0.0 |
| 2019-12 | RAN#86 | RP-192649 | 1292 | - | B | Introduction of DL MIMO efficiency enhancements for LTE | 16.0.0 |
| 2019-12 | RAN#86 | RP-192651 | 1293 | - | B | Introduction of configured PRG size for TM9 and TM10 in 36.213 | 16.0.0 |
| 2019-12 | RAN#86 | RP-192650 | 1294 | - | B | Introduction of LTE-based 5G terrestrial broadcast | 16.0.0 |
| 2019-12 | RAN#86 | RP-192647 | 1295 | - | B | Introduction of Additional MTC Enhancements for LTE in 36.213 s10-s13 | 16.0.0 |
| 2019-12 | RAN#86 | RP-192645 | 1296 | - | B | Introduction of Rel-16 MR DC/CA features in 36.213 s00-05 | 16.0.0 |
| 2019-12 | RAN#86 | RP-192645 | 1297 | - | B | Introduction of Rel-16 MR DC/CA features in 36.213 s06-07 | 16.0.0 |
| 2019-12 | RAN#86 | RP-192645 | 1298 | - | B | Introduction of Rel-16 MR DC/CA features in 36.213 s08-09 | 16.0.0 |
| 2019-12 | RAN#86 | RP-192645 | 1299 | - | B | Introduction of Rel-16 MR DC/CA features in 36.213 s10-13 | 16.0.0 |
| 2020-03 | RAN#87-e | RP-200201 | 1303 | - | A | Correction on priority value in LTE V2X | 16.1.0 |
| 2020-03 | RAN#87-e | RP-200179 | 1306 | - | A | Corrections on the indication value for the transport blocks in a bundle for HD-FDD eMTC UEs | 16.1.0 |
| 2020-03 | RAN#87-e | RP-200182 | 1307 | - | A | Correction on Msg3 NPUSCH for NB-IoT EDT | 16.1.0 |
| 2020-03 | RAN#87-e | RP-200180 | 1311 | - | A | Clarification on MPDCCH monitoring during UL gaps | 16.1.0 |
| 2020-03 | RAN#87-e | RP-200196 | 1312 | - | F | Corrections to Additional MTC Enhancements for LTE | 16.1.0 |
| 2020-03 | RAN#87-e | RP-200197 | 1313 | - | F | Corrections to Additional enhancements for NB-IoT | 16.1.0 |
| 2020-03 | RAN#87-e | RP-200194 | 1314 | - | F | Corrections to single Tx switched uplink solution for EN-DC feature of Rel-16 MR DC/CA | 16.1.0 |
| 2020-03 | RAN#87-e | RP-200198 | 1315 | - | F | Corrections to DL MIMO efficiency enhancements for LTE | 16.1.0 |
| 2020-06 | RAN#88-e | RP-200683 | 1319 | - | A | Correction on PUSCH and PDSCH scheduling with CSS | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200682 | 1321 | - | A | Clarification on set of values for HARQ delay | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200682 | 1323 | - | A | Clarification on PUCCH collision for HARQ-ACK bundling | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200684 | 1325 | - | A | Correction on Msg3 NPUSCH retransmission for NB-IoT EDT | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200681 | 1327 | - | A | CR on excluding TDD special subframes for MWUS maximum and actual duration | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200704 | 1330 | - | A | Correction on NPDCCH monitoring for NB-IoT | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200699 | 1335 | - | F | Corrections to Additional enhancements for NB-IoT | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200701 | 1336 | 1 | F | Corrections to LTE-based 5G terrestrial broadcast | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200698 | 1337 | - | F | Corrections to Additional MTC Enhancements for LTE | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200700 | 1338 | 1 | F | Corrections to DL MIMO efficiency enhancements for LTE | 16.2.0 |
| 2020-06 | RAN#88-e | RP-200696 | 1339 | - | F | Corrections to single Tx switched uplink solution for EN-DC feature of Rel-16 MR DC/CA | 16.2.0 |
| 2020-09 | RAN#89-e | RP-201819 | 1342 | - | A | Correction on conditions for selecting resources when the number of HARQ transmissions is two in sidelink transmission mode 4 | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201822 | 1344 | - | A | Correction on CFI related parameter names alignment between TS 36.331 and TS 36.213 | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201823 | 1346 | - | A | Correction on SPDCCH monitoring of an MBSFN subframe | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201816 | 1347 | - | F | Corrections on L1 adjustment on the NPUSCH repetition number | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201816 | 1348 | - | F | Corrections on PUR collision handling | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201816 | 1349 | - | F | Correction on configuration of multiTB-Gap | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201817 | 1350 | - | F | Correction on higher layer parameters for additional SRS in 36.213 | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201815 | 1351 | - | F | Clarifications for the PUR UE-specific search space | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201815 | 1352 | - | F | Corrections on PUR collision handling | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201815 | 1353 | - | F | Add PUR allocation procedures to UL resource allocation type 5 | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201815 | 1354 | - | F | Clarifications for PUR Repetition Adjustment | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201815 | 1355 | - | F | Number of HARQ processes in multi-TB scheduling in CE mode B in TDD in LTE-MTC | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201815 | 1356 | - | F | Missing 'else' in RV determination in UL multi-TB scheduling in LTE-MTC | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201816 | 1359 | - | F | Correction on terms and higher layer parameters for NB-IoT in 36.213 | 16.3.0 |
| 2020-09 | RAN#89-e | RP-201816 | 1360 | - | F | Correction on PUR-RNTI for NB-IoT in 36.213 | 16.3.0 |
| 2020-12 | RAN#90-e | RP-202396 | 1362 | - | A | Clarification on the subcarrier allocation for sub-PRB in CE Mode B | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202400 | 1364 | - | A | Corrections on preamble format indicator presence in NPDCCH order in TS 36.213 | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202391 | 1365 | - | F | PUR configuration of transmission mode | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202392 | 1366 | - | F | Correction on HARQ process ID assumption for multi-TB | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202399 | 1367 | - | F | Power sharing for LTE DAPS | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202391 | 1368 | 1 | F | Corrections for multi-TB early termination | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202391 | 1369 | - | F | Correction on TPC command for multi-TB scheduling in LTE-MTC | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202392 | 1370 | - | F | Corrections on UE-specific search space by PUR-RNTI | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202392 | 1371 | - | F | Corrections on PUR-RNTI for NB-IoT | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202389 | 1372 | - | F | 36.213 CR on Single UL Tx for EN-DC | 16.4.0 |
| 2020-12 | RAN#90-e | RP-202391 | 1373 | - | F | Alignment of terminology for Rel-16 Additional MTC Enhancements for LTE | 16.4.0 |
| 2021-03 | RAN#91-e | RP-210060 | 1376 | - | A | Correction on spectral efficiency of 1024QAM | 16.5.0 |
| 2021-03 | RAN#91-e | RP-210063 | 1378 | - | A | Clarification on power control for NB-IoT | 16.5.0 |
| 2021-03 | RAN#91-e | RP-210056 | 1379 | 1 | F | PUR correction on PUSCH Repetition Adjustment | 16.5.0 |
| 2021-03 | RAN#91-e | RP-210057 | 1380 | - | F | Correction on determination of number of scheduled TB for SC-MTCH | 16.5.0 |
| 2021-03 | RAN#91-e | RP-210056 | 1381 | - | F | Correction on HARQ process number for SPS validation when multi-TB is configured | 16.5.0 |
| 2021-03 | RAN#91-e | RP-210056 | 1382 | - | F | Correction on multicast gap in multi-TB scheduling in LTE-MTC | 16.5.0 |
| 2021-03 | RAN#91-e | RP-210057 | 1383 | - | F | Correction on transmission scheme for NPDSCH configured by PUR-RNTI | 16.5.0 |
| 2021-03 | RAN#91-e | RP-210057 | 1384 | - | F | PUR correction on parameter name for DL carrier | 16.5.0 |
| 2021-06 | RAN#92-e | RP-211245 | 1389 | - | A | Correction on MPDCCH assignment procedure | 16.6.0 |
| 2021-06 | RAN#92-e | RP-211245 | 1392 | - | A | Correction on PDSCH dropping for multicast in special subframe | 16.6.0 |
| 2021-06 | RAN#92-e | RP-211244 | 1393 | - | F | Correction on additional SRS symbols | 16.6.0 |
| 2021-06 | RAN#92-e | RP-211242 | 1394 | - | F | Correction on multi-TB scheduling for NB-IoT | 16.6.0 |
| 2021-06 | RAN#92-e | RP-211242 | 1395 | - | F | Correction on subcarrier indication for PUR | 16.6.0 |
| 2021-06 | RAN#92-e | RP-211241 | 1396 | - | F | Correction on PUCCH transmit power control for LTE-M | 16.6.0 |
| 2021-06 | RAN#92-e | RP-211241 | 1397 | - | F | Clarification on UE procedure for uplink MTB scheduling in TDD | 16.6.0 |
| 2021-06 | RAN#92-e | RP-211233 | 1399 | - | A | Editorial corrections on RRC parameter names alignment for EN-DC/NE-DC Coexistence (mirrored to Rel-16) | 16.6.0 |
| 2021-06 | RAN#92-e | RP-211239 | 1400 | - | F | Editorial Corrections on RRC parameter name alignment for single Tx switched uplink solution for EN-DC feature of Rel-16 MR DC/CA | 16.6.0 |
| 2021-09 | RAN#93-e | RP-211849 | 1402 | - | A | Clarification on the deployment mode indicator for NB-IoT | 16.7.0 |
| 2021-10 |  |  |  |  |  | Same content as v16.7.0 – only change concerns the renaming of files names in the zip file | 16.7.1 |
| 2021-12 | RAN#94-e | RP-212963 | 1405 | - | F | Clarification on HARQ bundling for LTE-M MTB scheduling in FDD | 16.8.0 |
| 2021-12 | RAN#94-e | RP-212975 | 1406 | - | B | Introduction of New bands and bandwidth allocation for LTE based 5G terrestrial broadcast in 36.213 s10-s13 | 17.0.0 |
| 2021-12 | RAN#94-e | RP-212974 | 1407 | - | B | Introduction of Additional Enhancements for NB-IoT and LTE-MTC in 36.213 s06-07 | 17.0.0 |
| 2021-12 | RAN#94-e | RP-212974 | 1408 | - | B | Introduction of Additional Enhancements for NB-IoT and LTE-MTC in 36.213 s10-s13 | 17.0.0 |
| 2021-12 | RAN#94-e | RP-212974 | 1409 | - | B | Introduction of Additional Enhancements for NB-IoT and LTE-MTC in 36.213 s14-xx | 17.0.0 |
| 2021-12 | RAN#94-e | RP-212976 | 1410 | - | B | Introduction of NB-IoT/eMTC support for Non-Terrestrial Networks in 36.213 s00-s05 | 17.0.0 |
| 2021-12 | RAN#94-e | RP-212976 | 1411 | - | B | Introduction of NB-IoT/eMTC support for Non-Terrestrial Networks in 36.213 s06-s07 | 17.0.0 |
| 2021-12 | RAN#94-e | RP-212976 | 1412 | - | B | Introduction of NB-IoT/eMTC support for Non-Terrestrial Networks in 36.213 s8-s09 | 17.0.0 |
| 2021-12 | RAN#94-e | RP-212976 | 1413 | - | B | Introduction of NB-IoT/eMTC support for Non-Terrestrial Networks in 36.213 s10-s13 | 17.0.0 |
| 2021-12 | RAN#94-e | RP-212976 | 1414 | - | B | Introduction of NB-IoT/eMTC support for Non-Terrestrial Networks in 36.213 s14-xx | 17.0.0 |
| 2022-03 | RAN#95-e | RP-220260 | 1417 | - | F | Corrections to NB-IoT/eMTC support for Non-Terrestrial Networks | 17.1.0 |
| 2022-03 | RAN#95-e | RP-220258 | 1418 | - | F | Corrections to Additional Enhancements for NB-IoT and LTE-MTC | 17.1.0 |
| 2022-06 | RAN#96 | RP-221609 | 1419 | - | F | Corrections to NB-IoT/eMTC support for Non-Terrestrial Networks | 17.2.0 |
| 2022-06 | RAN#96 | RP-221608 | 1420 | - | F | Corrections to Additional Enhancements for NB-IoT and LTE-MTC | 17.2.0 |
| 2022-09 | RAN#97-e | RP-222416 | 1423 | - | F | Missing DCI formats when mapping ACKNACK resource offset field | 17.3.0 |
| 2022-09 | RAN#97-e | RP-222409 | 1424 | 1 | F | CR on UE pre-compensation in segment | 17.3.0 |
| 2022-09 | RAN#97-e | RP-222416 | 1425 | - | F | Correction on determination of TBS for NPDSCH | 17.3.0 |
| 2022-09 | RAN#97-e | RP-222409 | 1426 | 1 | F | CR on FDD HARQ-ACK reporting procedure | 17.3.0 |
| 2022-09 | RAN#97-e | RP-222408 | 1427 | - | F | Clarification on TBS range of QPSK for NUPSCH | 17.3.0 |
| 2022-12 | RAN#98-e | RP-222861 | 1433 | - | F | Editorial corrections to NB-IoT/eMTC support for Non-Terrestrial Networks | 17.4.0 |
| 2022-12 | RAN#98-e | RP-222860 | 1434 | - | F | Correction on repetition number acquisition for NPDSCH and NPUSCH with 16-QAM | 17.4.0 |