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 &	0.3.0	0.3.1
					RAN1#47bis		
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	1.2.1	1.2.2
					RAN1#49bis		
2007-08		1			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		2	Update of 36.213	8.0.0	8.1.0
05/03/08	RP-39	RP-080145		_	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		1	PUCCH timing and other formatting and typo corrections	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		1	PUCCH power control for non-unicast information	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		 		8.2.0	8.3.0
				+-	UE ACK/NACK Procedure		
28/05/08	RP-40	RP-080434		<u> </u>	UL ACK/NACK timing for TDD	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		-	Specification of UL control channel assignment	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		-	Precoding Matrix for 2Tx Open-loop SM	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		-	Clarifications on UE selected CQI reports	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		1	UL HARQ Operation and Timing	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		-	SRS power control	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		1	Correction of UE PUSCH frequency hopping procedure	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		4	Blind PDCCH decoding	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		1	Tx Mode vs DCI format is clarified	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		-	Resource allocation for distributed VRB	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		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	8.2.0	8.3.0
00/0=/=			0077		modes	1000	1000
28/05/08	RP-40	RP-080434		-	Correction of the description of PUSCH power control for TDD	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		-	UL ACK/NACK procedure for TDD	8.2.0	8.3.0
28/05/08	RP-40	RP-080434		-	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			Calculation of $\Delta_{TF}(i)$ 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		-	Multiplexing of rank and CQI/PMI reports on PUCCH	8.2.0	8.3.0
28/05/08	RP-40	RP-080466		<u> </u>	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
00/00/00	131 -41	1141-000070	1 71		Total moduloti on Doi formate deling resource allocation type 2	10.0.0	10.7.0

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Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New		
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	١.	Completion of the table specifying the number of bits for the	8.3.0	8.4.0		
			٥,		periodic feedback				
09/09/08	RP-41	RP-080670	54	-	Clarification of RNTI for PUSCH/PUCCH power control with DCI formats 3/3A		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		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		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		2	CQI/PMI reference measurement periods	8.4.0	8.5.0		
03/12/08	RP-42	RP-081075		-	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		-	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		
	RP-42	RP-081075		-	Miscellaneous Corrections	8.4.0	8.5.0		
03/12/08				-	Clarification of the uplink index in TDD mode	8.4.0	8.5.0		
03/12/08	RP-42	RP-081075	120		Clarinoation of the apinik index in 100 mode	0.7.0			
03/12/08	RP-42 RP-42			+-					
		RP-081075 RP-081075 RP-081075	126		Clarification of the uplink transmission configurations Correction to the PHICH index assignment	8.4.0 8.4.0	8.5.0 8.5.0		

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Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New					
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-42	RP-081075 RP-081075	141 143	1	Alignment of RAN1/RAN3 specification TTI bundling	8.4.0 8.4.0	8.5.0 8.5.0					
03/12/08	RP-42	RP-081075	143	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	8.4.0	8.5.0					
				<u>'</u>	power							
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 8.4.0	8.5.0					
03/12/08	RP-42 RP-42	RP-081075 RP-081075	151 152	1	Nominal PDSCH-to-RS EPRE Offset for CQI Reporting Support of UL ACK/NAK repetition in Rel-8	8.4.0	8.5.0 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			Correction of control information multiplexing in subframe	8.4.0	8.5.0					
			156	1	bundling mode							
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 RP-081075	159	-	Clarification of spatial different CQI for CQI reporting Mode 2-1	8.4.0	8.5.0 8.5.0					
03/12/08	RP-42 RP-42	RP-081075	160 161	1	Corrections for TDD ACK/NACK bundling and multiplexing Correction to RI for Open-Loop Spatial Multiplexing	8.4.0 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	8.4.0	8.5.0					
00/40/00			100		PUSCH							
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	407		Transmission overlapping of physical channels/signals with	8.4.0	8.5.0					
			167	1	PDSCH for transmission mode 7							
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 03/12/08	RP-42 RP-42	RP-081075 RP-081075	173 174	-	Clarification on message 3 transmission timing MCS handling for DwPTS	8.4.0 8.4.0	8.5.0 8.5.0					
03/12/08	RP-42	RP-081075		-	Clarification of UE-specific time domain position for SR	8.4.0	8.5.0					
00/12/00	1 1 12		175	-	transmission	0.1.0	0.0.0					
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	8.4.0	8.5.0					
02/12/09	DD 42	DD 001075			power allocation)	9.4.0	0.5.0					
03/12/08	RP-42 RP-42	RP-081075 RP-081075	180	-	Clarification of uplink A/N resource indication PDCCH format 0 for message 3 adaptive retransmission and	8.4.0 8.4.0	8.5.0 8.5.0					
00/12/00	131 -72	1.11 001073	181	_	transmission of control information in message 3 during	J7.0	0.5.5					
					contention based random access procedure							
03/12/08	RP-42	RP-081075	182	-	To Fix the Discrepancy of Uplink Power Control and Channel	8.4.0	8.5.0					
00/40/00	DD 40	DD 004400		_	Coding of Control Information in PUSCH	0.4.0	0.50					
03/12/08	RP-42 RP-42	RP-081122 RP-081110	183 168	1	CQI reporting for antenna port 5 Clarification on path loss definition	8.4.0 8.4.0	8.5.0 8.5.0					
04/03/09	RP-42	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	8.5.0	8.6.0					
04/03/09	RP-43	RP-090236	194	-	mapping for aperiodic CQI reporting Correction for DRS Collision handling	8.5.0	8.6.0					
04/03/09	RP-43		196	2	Alignment of RAN1/RAN4 specification on UE maximum output	8.5.0	8.6.0					
		RP-090236			power							
04/03/09	RP-43	RP-090236	197	-	Transmission scheme for transmission mode 7 with SPS C-	8.5.0	8.6.0					
04/02/02	DD 40	555256	100		RNTI	0.5.0	0.00					
04/03/09	RP-43	RP-090236	198	-	Clarifying bandwidth parts for periodic CQI reporting and CQI reference period	8.5.0	8.6.0					
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Date 04/03/09	TSG # RP-43	TSG Doc.	CR 199	Rev 2	Subject/Comment Correction to the ACK/NACK bundling in case of transmission	Old 8.5.0	New 8.6.0
04/03/09	117-43	RP-090236	199	-	mode 3 and 4	0.5.0	0.0.0
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		-	Corrections to UE Transmit Antenna Selection	8.5.0	8.6.0
04/03/09	RP-43	RP-090236			Correction to UE PUSCH hopping procedure	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		-	Correction to PHICH resource association in TTI bundling	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		-	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	8.5.0	8.6.0
04/03/09	RP-43		207	-	resource release Introduction of additional values of wideband CQI/PMI	8.5.0	8.6.0
04/00/00	111 -45	RP-090236	201	-	periodicities	0.5.0	0.0.0
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		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		1	Removing RL monitoring start and stop	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		1	Correction to type-1 and type-2 PUSCH hopping	8.5.0	8.6.0
04/03/09	RP-43	RP-090236	_	-	Contradicting statements on determination of CQI subband size	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		-	Corrections to SRS	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		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		3	PRACH retransmission timing	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		-	Clarifying error handling of PDSCH and PUSCH assignments	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		-	Clarify PHICH index mapping	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		-	Correction of CQI timing	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		-	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		-	Default value of RI	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		1	Clarification of uplink timing adjustments	8.5.0	8.6.0
04/03/09	RP-43	RP-090236		-	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	8.6.0	8.7.0
07/05/00	DD 44	000020	000		power correction	0.00	0.7.0
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	_	1	Correction on CQI reporting	8.6.0	8.7.0
27/05/09	RP-44	RP-090529		<u> </u>	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		242	1	Clarify latest and initial PDCCH for PDSCH and PUSCH	8.6.0	8.7.0
		RP-090529			transmissions, and NDI for SPS activation		
27/05/09	RP-44	RP-090529		-	Clarify DRS EPRE	8.6.0	8.7.0
27/05/09	RP-44	RP-090529		1	Clarification on TPC commands for SPS	8.6.0	8.7.0
15/09/09	RP-45	RP-090888		1	Correction to PUSCH hopping and PHICH mapping procedures	8.7.0	8.8.0
15/09/09	RP-45	RP-090888		-	Clarification on subband indexing in periodic CQI reporting	8.7.0	8.8.0
15/09/09	RP-45	RP-090888		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	8.7.0	8.8.0
15/09/09	RP-45	RP-090888		-	transmission on PUCCH for TDD Clarify Inter-cell synchronization text	8.7.0	8.8.0
01/12/09	RP-45 RP-46	RP-090888 RP-091172		1	Introduction of LTE positioning	8.8.0	9.0.0
01/12/09	RP-46		254	 	Clarification of PDSCH and PRS in combination for LTE	8.8.0	9.0.0
J 11 12/00	111-40	RP-091172	204	-	positioning	3.3.0	0.0.0
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		-	Introduction of LTE MBMS	8.8.0	9.0.0
17/12/09	RP-46		256	1	Correction by MCC due to wrong implementation of CR0256r1 -	9.0.0	9.0.1
		RP-091257			Sentence is added to Single-antenna port scheme subclause		1
40/00/40	DD 17		050		7.1.1	0.0.4	10.4.0
16/03/10	RP-47	RP-100211	259	3	UE behavior when collision of antenna port 7/8 with PBCH or	9.0.1	9.1.0
		KP-100211			SCH happened and when distributed VRB is used with antenna port 7		1
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		263	 	Correction on PDSCH EPRE and UE-specific RS EPRE for Rel-	9.0.1	9.1.0
10,00/10	131	RP-100211	200	1	9 enhanced DL transmissions	0.0.1]
01/06/10	RP-48	DD 400500	265	-	Clarification for TDD when multiplexing ACK/NACK with SR of	9.1.0	9.2.0
	L	RP-100589	L	L	ACK/NACK with CQI/PMI or RI		
	RP-48	RP-100590	268	1	Clarification of PRS EPRE	9.1.0	9.2.0

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14/09/10	RP-49	RP-100900	269	-		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		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		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	10.1.0	10.2.0
				<u> </u>	deactivation		1
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	10.1.0	10.2.0
					Assignment		
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	10.1.0	10.2.0
04/00/11	DD 50		00-		bundling in TDD	40.4.0	40.00
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	10.1.0	10.2.0
0.1/0.0/1.1	55.50			.	format 2/2a/2b	10.10	10.00
01/06/11	RP-52	RP-110819	302	1	Correction for Simultaneous PUCCH and SRS Transmissions	10.1.0	10.2.0
04/00/44	DD 50		202		on CA	10.1.0	1000
01/06/11	RP-52	RP-110821	303	-	Correction on 8Tx Codebook Sub-sampling for PUCCH Mode 1-	10.1.0	10.2.0
01/06/11	RP-52		304	1	Corrections on CQI type in PUCCH mode 2-1 and clarification	10.1.0	10.2.0
0 1/00/11	117-52	RP-110821	304	'	on simultaneous PUCCH and PUSCH transmission for UL-SCH	10.1.0	10.2.0
		111 -110021			subframe bundling		
01/06/11	RP-52		305	1	Correction on UE behaviour upon reporting periodic CSI using	10.1.0	10.2.0
0 1/00/11	1 1 0 2	RP-110818	000		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		-	Clarification for the definition of Precoding Matrix Indicator	10.1.0	10.2.0
01/06/11	RP-52	RP-110819		-	Simultaneous SRS transmissions in more than one cell	10.1.0	10.2.0
01/06/11	RP-52	RP-110819		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		312	1	Correction on the support of PUCCH format 3 and channel	10.1.0	10.2.0
3.,00,11	02	RP-110819		'	selection		
01/06/11	RP-52	DD 44655	313	-	Correction on UE behaviour during DM-RS transmission on	10.1.0	10.2.0
		RP-110821			subframes carrying synchronization signals		
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		-	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	10.1.0	10.2.0
		LKP-110819		L_	subframe		
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		323	-	Joint transmission of ACK/NACK and SR or CSI with PUCCH	10.1.0	10.2.0
		RP-110859		L	format 3 and channel selection		
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		2	Corrections on Physical Uplink Control Channel Procedure	10.2.0	10.3.0
15/09/11	RP-53		331	1	Correction to uplink transmission scheme usage for random	10.2.0	10.3.0
		RP-111231	331	<u>L'</u>	access response and PHICH-triggered retransmissions	<u> </u>	
15/09/11	RP-53	RP-111229	336	-	Corrections on transmission mode 9	10.2.0	10.3.0
45/00/44	RP-53	RP-111230	339	-	Corrections on HARQ-ACK codebook size determination	10.2.0	10.3.0
15/09/11					Corrections on TDD PUCCH format 1b with channel selection		
15/09/11	RP-53	DD 444000	240		Corrections on TDD PUCCH format 1b with channel selection	10.2.0	10.3.0
	RP-53	RP-111230	340	-	and HARQ-ACK transmission on PUSCH	10.2.0	10.3.0

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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	10.2.0	10.3.0					
				L .	retransmission							
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	DD 444000	050		Clarification on ambiguous DCI information between UE-specific	10.2.0	10.3.0					
		RP-111232	353	1	search space and common search space for DCI formats 0 and							
15/09/11	RP-53				1A Clarification of Reference PDSCH Power for CSI-RS based CSI	10.2.0	10.3.0					
15/09/11	KP-33	RP-111229	354	-	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		359	-	Corrections on TDD PUCCH format 1b with channel selection	10.3.0	10.4.0					
00/12/11	141 04	RP-111666	000		and two configured serving cells	10.0.0	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		362	3	A correction to PDSCH transmission assumption for CQI	10.3.0	10.4.0					
		RP-111668			calculation							
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	10.3.0	10.4.0					
		141 -1111000			configuration 5							
05/12/11	RP-54	RP-111666	366	2	Clarification on the determination of resource for PUCCH	10.3.0	10.4.0					
05/10/11	55.51			<u> </u>	Format 1b with channel selection in TDD mode	10.00	10.10					
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	10.3.0	10.4.0					
05/10/11	RP-54	RP-111668	369	-	channel selection Clarification of PUCCH 2-1 Operation	10.3.0	10.4.0					
05/12/11 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 on PMI index 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		376	1	RNTI Configuration associated with DL Resource Allocation	10.4.0	10.5.0					
20/02/12	111 -00	RP-120286	370	'	Type 2	10.4.0	10.5.0					
28/02/12	RP-55		377	2	Correction for ACK/NACK related procedure in case of TDD UL-	10.4.0	10.5.0					
		RP-120283		-	DL configuration 0							
13/06/12	RP-56	RP-120737	378	3	Correction of FDD channel selection HARQ-ACK and SR	10.5.0	10.6.0					
					transmission							
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	10.5.0	10.6.0					
					transmission							
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	10.6.0	10.7.0					
04/00/42	DD 57	RP-121265	205	<u> </u>	selection in carrier aggregation	10.6.0	10.7.0					
04/09/12	RP-57 RP-57	RP-121265 RP-121264	385 386	1	Corrections for Handling CSI-RS patterns Reference serving cell for pathloss estimation	10.6.0 10.6.0	10.7.0					
04/09/12	RP-57	RP-121264 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-121204 RP-121274	380	4	Introduction of an additional special subframe configuration	10.6.0	11.0.0					
04/09/12	RP-57	RP-121272	389	-	Introduction of Rel-11 features	10.7.0	11.0.0					
04/09/12	RP-58	RP-121839	393	-	Correction to the parameter ue-Category-v10xy	11.0.0	11.1.0					
04/12/12	RP-58		395	-	Correction of reference signal scrambling sequence initialization	11.0.0	11.1.0					
V-1, 12, 12	111 -00	RP-121837	555	-	for SPS in transmission mode 7	1.0.0	' ' ' ' '					
04/12/12	RP-58	RP-121846	396	<u> </u>	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		403	-	CR on UE specific search and Common search space overlap	11.1.0	11.2.0					
		RP-130252			on PDCCH	-	-					
26/02/13	RP-59	RP-130358	404	-	Additional clarifications/corrections for introducing Rel-11	11.1.0	11.2.0					
		172-190998			features							
11/06/13	RP-60	RP-130752	405	-	Correction to EPDCCH monitoring in case of cross-carrier	11.2.0	11.3.0					
					scheduling							

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Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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		-	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	11.2.0	11.3.0
44/00//-	DD 55		444		bands	44.0.	112
11/06/13	RP-60	RP-130752	411 412	-	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 Correction on PUCCH resource determination for FDD	11.2.0	11.3.0
11/06/13	RP-60	RP-130752	413	-	EPDCCH	11.2.0	11.3.0
11/06/13	RP-60		414	2	CR on ambiguity in EPDCCH decoding candidates under two	11.2.0	11.3.0
11/00/13	111 -00	RP-130752	7.7	-	overlapped EPDCCH resource sets	11.2.0	111.5.0
11/06/13	RP-60	DD 400740	415	-	Removal of the case for spatial domain bundling in TDD UL/DL	11.2.0	11.3.0
		RP-130749			configuration 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	11.2.0	11.3.0
					power ramping		
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	11.2.0	11.3.0
11/06/13	RP-60	RP-130747	421	 -	TM10 CR on resolving ambiguous UE capability signaling for CoMP	11.2.0	11.3.0
11/06/13	RP-60	RP-130747	421	 -	Correction of valid downlink subframe	11.2.0	11.3.0
11/06/13	RP-60		424	+-		11.2.0	11.3.0
11/00/13	111-00	RP-130749	424	-	PUCCH format 3	11.2.0	11.5.0
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		426	-	Correction on n {HARQ} for TDD CA with different UL-DL	11.2.0	11.3.0
	<u> </u>	RP-130750			configurations	<u> </u>	
11/06/13	RP-60		427	-	Correction on implicit HARQ-ACK resource determination for	11.2.0	11.3.0
		RP-130750			PUCCH format 1b with channel selection for TDD CA with		
					different UL-DL configurations		1
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		437	 -	Correction to the UE behaviour in case of collision between	11.3.0	11.4.0
03/03/13	111 -01	RP-131249	437	-	PRS and EPDCCH in different CP case	11.5.0	11.4.0
03/09/13	RP-61	DD 404040	438	-	On correction to higher layer parameter name for EPDCCH	11.3.0	11.4.0
		RP-131249			resource mapping		
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	11.4.0	11.5.0
					block size		
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		-	Correction on deriving the length of the non-MBSFN region	11.4.0	11.5.0
03/12/13	RP-62	RP-131896		5	Introduction of Rel 12 feature for Downlink MIMO Enhancement	11.5.0	12.0.0
03/03/14	RP-63	RP-140286		-	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		-	Introduction of new UE categories	12.0.0	12.1.0
03/03/14	RP-63	RP-140288		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		-	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	12.1.0	12.2.0
10/06/14	RP-64	RP-140858	462	1	when the UE is configured with multiple TAGs Clarification on SRS antenna switching	12.1.0	12.2.0
10/06/14	RP-64	RP-140862		 	Introduction of Rel-12 LTE-Advanced features in 36.213	12.1.0	12.2.0
10/00/14	RP-65	RP-141479	464	-		12.1.0	12.3.0
10/09/14		117-1414/9	465	-	Correction on SRS transmission for TDD-FDD CA Correction on beta {offset}^{HARQ-ACK} determination for a		
10/09/14	RP-65	RP-141478	405	-	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 elMTA	12.2.0	12.3.0
10/09/14	RP-65	RP-141478		3	CR on HARQ-ACK Multiplexing in PUSCH for TDD-FDD CA	12.2.0	12.3.0
10/09/14	RP-65		469	-	Correction to UCI embedding in case of a single serving cell	12.2.0	12.3.0
10,00,14	''' =00	RP-141474	700	-	and simultaneous PUSCH and PUCCH transmission	12.2.0	12.5.0
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	<u> </u>	CR for Clarification of special subframe and usage alignment	12.2.0	12.3.0
		,			1		

					Change history		
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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,	12.3.0	12.4.0
					NAICS, eIMTA, and TDD-FDD CA features		
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		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		12.6.0
15/06/15	RP-68	RP-150933	516	1	Correction on UL Power Control for Asynchronous Dual Connectivity 12		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	<u> </u>	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	<u> </u>	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

						Change history	
Date	Meeting	TDoc	CR	R	Cat	Subject/Comment	New
2016-03	RAN#71	RP-160359	546	ev	F	Alignment eD2D CR for 36.213	version 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	<u> </u>	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	<u> </u>	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	578 579	-	F	Correction on Class B CSI reporting	13.1.0
2016-03 2016-03	RAN#71 RAN#71	RP-160358 RP-160358	580	-	F	CR on CRI reporting for one CSI-RS ports (36.213) Correction to the condition of CRI updating restriction	13.1.0 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	Η-	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	-	Α	Clarification on T_threshold in dual connectivity	13.1.0
2016-03	RAN#71	RP-160361	0540	6	В	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	13.2.0
2016-06	RAN#72	RP-161063	0593	1	F	codebook configuration of eCA in 36.213 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	-	Α	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 PANNEZ PR-161060 0002 1 F MP-DU-H repetition for paging and random access for MI	0040.00	DAN1//70	DD 101000			_	IMPROOF IN CASE	140.00
2016-06 RANNIFZ RP-161062 0622 F Confections on Simultaneous HARQ-ACK and PCS in 36.213 13.20	2016-06	RAN#72	RP-161066	0620	-	<u>F</u>	MPDCCH repetition for paging and random access for MTC	13.2.0
2016-06 RANR7Z RP-161062 6023 F Corrections on Simultaneous HARO-ACK and P-CSI in 36.213 13.20								
2016-06 RANPTZ RP-161069 0624 F Corrections SRS dropping in CA in 36.213 13.20								
2016-06 RANMIZ RA-161065 0625 D Correction to the usage of undefined terminology "channel" 13.20					-			
2016-06 RAM#72 RP-161065 0626 7 F Correction on channel access procedure after an additional defer 13.2.0					-			
19.20 19.0	2016-06	RAN#12	RP-101003					13.2.0
2016-06 RAN#72 RP-161065 6028	2016-06	RAN#72	RP-161065	0020	-	F		13.2.0
2016-06 RAN#72 RP-161063 0629 . F Correction on the linkage between CSI-RS and CSI-IM for Class 15 13.20	2016.06	D 4 N # 7 2	DD 161004	0627	1			12.2.0
2016-06 RAM#72 RP-161080 0630 F F Correction on the linkage between CSI-RS and CSI-IM for Class B 13.2.0								
2016-06 RANH7Z RP-161065 0630 - F Correction for HARC-ACK Codebook Determination in eCA 13.2.0					-			
2016-06 RAN#72 RP-161065 0631 - F Carrections on simultaneous transmission of HARC-ACK and SR 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 0633 2 F MDPCCH candidate overflow monitoring correction 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 0635 1 F Correction on CS for MPDCCH condigured by temporary C-RNT1 13.2.0 2016-06 RAN#72 RP-161066 0635 1 F Correction on CS for MPDCCH condigured by temporary C-RNT1 13.2.0 2016-06 RAN#72 RP-161066 0639 2 F Correction on CS for MPDCCH condigured by temporary C-RNT1 13.2.0 2016-06 RAN#72 RP-161066 0639 2 F Correction on OFDSCH transmission timing for Rel-13 eMTC 30.2.1 2016-06 RAN#72 RP-161066 0639 5 F Correction on OFDSCH transmission timing for Rel-13 eMTC 30.2.1 2016-06 RAN#72 RP-161066 0639 5 F Correction on OFDSCH transmission timing for Rel-13 eMTC 30.2.1 2016-06 RAN#72 RP-161066 0640 5 F Correction on DFDSCH transmission timing for Rel-13 eMTC 30.2.1 2016-06 RAN#72 RP-161066 0640 5 F Correction on DFDSCH transmission timing for Rel-13 eMTC 30.2.1 2016-06 RAN#72 RP-161066 0641 5 F Collision between eMTC SIB and MPDCCH/PDSCH in TS 30.2.1 2016-06 RAN#72 RP-161066 0641 5 F Collision between EMTC SIB and MPDCCH/PDSCH in TS 30.2.1 2016-06 RAN#72 RP-161066 0641 5 F Collection on RV and MPDCCH and PDSCH off MTC 30.2.0 30.2.1					-		v	
2016-06 RANH7Z RP-161066 0632 - F Corrections on simultaneous transmission of HARQ-ACK and SR 13.20 2016-06 RANH7Z RP-161066 0633 - F Corrections on simultaneous transmission of HARQ-ACK and SR 13.20 2016-06 RANH7Z RP-161066 0633 - F Correction on St. 213 for eMTC 13.20 2016-06 RANH7Z RP-161066 0636 - F Correction on M-PDCCH case definition 13.20 2016-06 RANH7Z RP-161066 0636 - F Correction on M-PDCCH case definition 13.20 2016-06 RANH7Z RP-161066 0636 - F Correction on M-PDCCH case definition 13.20 2016-06 RANH7Z RP-161066 0638 1 F Correction on CSS for MPDCCH Configured by temporary C-RNTI 13.20 2016-06 RANH7Z RP-161066 0638 1 F Correction on CSS for MPDCCH CORRECTION 13.20 2016-06 RANH7Z RP-161066 0639 - F On the collision between eMTC SIB and MPDCCH/PDSCH in TS 32.00 32.13 32.00 32.13 32.00 32.13 32.00 32.13 32.00 32.13 32.00 32.13 32.00 32.13 32.00 32.13 32.00 32.13 32.00 32.13 32.00	2016-06	RAN#/2	RP-161062					13.2.0
2016-06 RAN#TZ RP-161062 0632 -	2016-06	RAN#72	RP-161065	0631	-	F		13.2.0
2016-06 RAMPTZ RP-161066 0633 5 7 000				0000	-		***	
2016-06 RANHF72 RP-161066 0633 2 F MDPCCH candidate overflow monitoring correction for eMTC 13.2.0	2016-06	RAN#72	RP-161062	0032	-	F		13.2.0
2016-06 RANNF72 RP-161066 0634 . F Correction to TS 38.213 for eMTC 13.2.0	2016.06	DAN#70	DD 161066	0633	2			12.2.0
2016-06 RAN#TZ RP-161066 0635 1 F Correction on M-PDCCH case definition 13.2.0								
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2016-06 RAN#72 RP-161066 0637 2 F statically scheduled data for Rel-13 eMTC 13.2.0	2016-06	RAN#72	RP-161066	0636	-	F		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 13.2.0 2016-06 RAN#72 RP-161066 0640 - F On the collision between eMTC SIB and MPDCCH/PDSCH in TS 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 Collision between PUCCH format 2 and PDSCH with repetitions 13.2.0 2016-06 RAN#72 RP-161066 0643 - F Collision between PUCCH format 2 and PDSCH with repetitions 13.2.0 2016-06 RAN#72 RP-161066 0643 - F Correction of Tablos behavior for TM9 13.2.0 2016-06 RAN#72 RP-161066 0645 - F CR for 36.213 on multi-channel access procedure Type A2 in LAA 13.2.0 2016-06				0007			and Typeu MPDCCH CSS resource	
2016-06 RAN#72 RP-161066 0639 1 F Correction on PDSCH transmission timing for Rel-13 eMTC 13.2.0	2016-06	RAN#72	RP-161066	0637	2	F	Correction on collision of dynamically scheduled data and semi-	13.2.0
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2016-06 RAN#72 RP-161066 0641 - F Clarification of TMI/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 0644 1 F Correction on RV and MPDCCH starting position 13.2 0 2016-06 RAN#72 RP-161066 0645 - F Correction on RV and MPDCCH starting position 13.2 0 2016-06 RAN#72 RP-161066 0646 - F CR for TS36:213 on multi-channel access procedure Type A2 in LAA 13.2 0 2016-06 RAN#72 RP-161065 0649 - F CR for TS36:213 related to 2+4 PRB set 13.2 0 2016-06 RAN#72 RP-161065 0650 - F CR no CSI-RS ID configuration for TM9 in TS 36:213 13.2 0 2016-06 RAN#72 RP-161065 0650 - F CR no CSI-RS ID configuration for TM9 in TS 36:213 13.2 0 2016-06 RAN#72 RP-161066 <	0040.00	DAN#70	DD 404000	0040				
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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					-			
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2016-12 RAN#74 RP-162362 0748 - B Introduction of RACHless handover for Further mobility enhancement in LTE 14.1.0 2016-12 RAN#74 RP-162356 0757 - A Correction to PUCCH reporting mode 2-1 14.1.0 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					-			
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2016-12	RAN#74	RP-162365			В	36.213	14.1.0
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			0833	1		06-09 Introduction of eMBMS enhancements for LTE to 36.213 sections	
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2017-03	RAN#75	RP-170610	0860		Α	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
2017-03	RAN#75	RP-170622	0863	-	В	Introduction of V2X	14.2.0
2017-03	RAN#75	RP-170623	0864	-	В	Introduction of Further Enhanced MTC into 36.213	14.2.0
2017-03	RAN#75	RP-170624	0865	-	В	Introduction of NB-IoT enhancements for LTE	14.2.0
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2017-06	RAN#76	RP-171201	0882	-	F	CR on two stage grant DCI field definition	14.3.0
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2017-06	RAN#76	RP-171196	0939	-	Α	special subframe	14.3.0
			0941	-		Correction on abbreviation of Uplink SPS RNTI and Sidelink SPS	
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2017-09	RAN#77	RP-171646	0377		F	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	Α	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	-	Α	TBS for TDD special subframe for BL/CE UE without repetition	14.5.0
2017-12	RAN#78	RP-172680	0989	-	Α	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	14.5.0
					Г	Class A NZP CSI-RS	
2017-12	RAN#78	RP-172685	0991	-	F	Corrections on HARQ-ACK bundling	14.5.0
2017-12	RAN#78	RP-172681	0997	-	Α	Typo correction for table 16.5.1.2.1-1	14.5.0
2017-12	RAN#78	RP-172678	0999	-	Α	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	14.5.0
			1001		•	36.213	1 11010
2017-12	RAN#78	RP-172685	1001	-	F	Correction for modulation determination under larger TBS for	14.5.0
0047.40	DAN1//70	DD 470000	4000	-		random access response grant	4450
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	1003	-	F	Correction of NRS-CRS power offset configuration for NB-IoT	14.5.0
2017-12	RAN#78	RP-172686	1000	-	F	Clarification of carrier indication in DCI format N1 in NB-IoT	14.5.0
			1010	-		Clarification on 2 HARQ process applicability to UE-specific search	
2017-12	RAN#78	RP-172686	1010	_	F	space	14.5.0
2017-12	RAN#78	RP-172686	1011	-	F	Correction of interference in NB-IoT RACH procedure	14.5.0
			0992	1		Introduction of shortened processing time and shortened TTI into	
2017-12	RAN#78	RP-172693			В	36.213, s00-s05	15.0.0
2017.12	DAN#70	DD 470000	0993	1	Ъ	Introduction of shortened processing time and shortened TTI into	45.00
2017-12	RAN#78	RP-172693			В	36.213, s06-s09	15.0.0
2017-12	RAN#78	RP-172693	0994	1	В	Introduction of shortened processing time and shortened TTI into	15.0.0
		1172093				36.213, s10-s13	
2018-03	RAN#79	RP-180195	0995	2	В	Introduction of feCoMP into 36.213	15.1.0
2018-03	RAN#79	RP-180201	1013	2	В	Introducing support for EN-DC Coexistence into TS36.213 s00-s05	
2018-03	RAN#79	RP-180201	1014	2	В	Introducing support for EN-DC Coexistence into TS36.213 s06-s09	
2018-03	RAN#79	RP-180201	1015	3	В	Introducing support for EN-DC Coexistence into TS36.213 s10-s13	
2018-03	RAN#79	RP-180194	1030	-	Α	Correction on CSI reporting for Class B K>1	15.1.0
2018-03	RAN#79	RP-180191	1032		Α	Clarification on UL power control for NB-IoT	15.1.0
2018-03	RAN#79	RP-180188	1035	-	Α	Multiple CSI reports for eCA	15.1.0
2018-03	RAN#79	RP-180194	1036	-	Α	Correction on CSI reporting for Class B K=1	15.1.0
2018-03	RAN#79	RP-180190	1037	-	Α	Correction to determination of number of PUCCH repetitions for	15.1.0
			4000			BL/CE UE	1
2018-03	RAN#79	RP-180192	1038	-	Α	Correction on PUCCH resource determination in HARQ-ACK	15.1.0
			1000	\vdash		bundling	
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	\vdash	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	\vdash	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 1049	2	Α	Support of early contention resolution Corrections for shortened processing time and shortened TTI in	15.2.0
2018-06	RAN#80	RP-181170	1049		F	36.213, s00-s05	15.2.0
			1050	2		Corrections for shortened processing time and shortened TTI in	1= 6 -
1 !					_	, gallagalario ion onontonos processing timo una enertenos I II III	14500
2018-06	RAN#80	RP-181170			F	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	15.2.0
2018-06	RAN#80	RP-181170	1052	1	F	36.213, s10-s13 Corrections for shortened processing time and shortened TTI in	15.2.0
2018-06	RAN#80	RP-181173	1053	1	В	36.213, s14-xx 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	В	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	В	Introduction of Enhancements to LTE operation in unlicensed spectrum into 36.213 s06-s09	15.2.0
2018-06	RAN#80	RP-181180	1057	-	В	Introduction of Enhancements to LTE operation in unlicensed spectrum into 36.213 s14-xx	15.2.0
2018-06	RAN#80	RP-181162	1060	-	Α	Correction on number of subframes for semistatic codebook determination and transmission over PUSCH	15.2.0
2018-06	RAN#80	RP-181165	1063	-	Α	Correction on TBS determination for msg 3 retransmission and CSS for fallback	15.2.0
2018-06	RAN#80	RP-181181	1065	-	Α	Clarification of Msg3 power control in NB-IoT	15.2.0
2018-06	RAN#80	RP-181161	1067	-	Α	On the configuration of UL 256QAM	15.2.0
2018-06	RAN#80	RP-181179	1069	-	Α	Correction on look-ahead for SRS carrier switching	15.2.0
2018-06	RAN#80	RP-181175	1070	-	В	Introduction of Enhancing CA Utilization into 36.213	15.2.0
2018-06	RAN#80	RP-181181	1072	-	Α	Clarification of NPUSCH uplink compensation gaps for 2 HARQ processes	15.2.0
2018-06	RAN#80	RP-181182	1073	- 1	В	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	В	Introduction of SRS antenna switching for 4 ports in TS36.213	15.2.0
2018-06	RAN#80	RP-181162	1078	- 1	Α	Correction of a typo further to CR0594 faulty implementation	15.2.0
2018-06	RAN#80	RP-181162	1081	- 1	Α	Clarification on beta offset for more than 22 HARQ-ACK bits	15.2.0
2018-06	RAN#80	RP-181162	1084	-	Α	Clarification on simultaneousAckNackAndCQI for format 4-5 and format 3	15.2.0
2018-06	RAN#80	RP-181162	1087	- 1	Α	Clarification on PUCCH formats	15.2.0
2018-06	RAN#80	RP-181164	1090	- 1	Α	Correction on PUCCH configuration with CEModeA or CEModeB	15.2.0
2018-06	RAN#80	RP-181178	1092	-	Α	Correction to timing advance	15.2.0
2018-06	RAN#80	RP-181169	1094	- 1	Α	Correction on RV determination for eVoLTE	15.2.0
2018-06	RAN#80	RP-181165	1096	-	Α	Corrections in Physical Resource Block numbering to RA Type0 for FeMTC UEs	15.2.0
2018-06	RAN#80	RP-181182	1097	- 1	В	Introduction of advanced CSI CBSR in TS 36.213	15.2.0
2018-06	RAN#80	RP-181181	1099	- 1	Α	Clarification of NPUSCH reception in 2 NB-IoT HARQ processes	15.2.0
2018-06	RAN#80	RP-181175	1100	-	В	Short CQI Reporting for EuCA	15.2.0
2018-06	RAN#80	RP-181174	1101	1	В	Introduction of even further enhanced MTC for LTE in 36.213, s00-s05	15.2.0
2018-06	RAN#80	RP-181174	1102	1	В	Introduction of even further enhanced MTC for LTE in 36.213, s06-s07	15.2.0
2018-06	RAN#80	RP-181174	1103	1	В	Introduction of even further enhanced MTC for LTE in 36.213, s08-s09	15.2.0
2018-06	RAN#80	RP-181166	1104	1	В	Introduction of Rel-15 Further NB-IoT enhancements in 36.213, s14	15.2.0
2018-06	RAN#80	RP-181182	1105	-	В	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	-	В	Addition of V2X Phase 2 based on LTE in 36.213, s14	15.2.0
2018-06	RAN#80	RP-181177	1108	<u> </u>	В	Introduction of HRLLC for LTE in 36.213, s07-1	15.2.0
2018-06	RAN#80	RP-181177	1109	<u> </u>	В	Introduction of HRLLC for LTE in 36.213, s07-3	15.2.0
2018-06	RAN#80	RP-181177	1110	<u>L-</u>]	В	Introduction of HRLLC in 36.213, s08	15.2.0
2018-06	RAN#80	RP-181177	1111		В	Introduction of HRLLC in 36.213, s09	15.2.0
2018-06	RAN#80	RP-181177	1112	<u> </u>	В	Introduction of HRLLC in 36.213, s10	15.2.0
2018-06	RAN#80	RP-181277	1113	<u> </u>	В	Introduction of Aerial for LTE in 36.213, s00-s05	15.2.0
2018-06	RAN#80	RP-181172	1114	<u>L-</u>]	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	<u> </u>	F	Correction for EN-DC Coexistence into TS36.213 s00-s05	15.2.0
2018-06	RAN#80	RP-181172	1117	<u> - </u>	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	-	Α	PRG for eMTC	15.3.0
2018-09	RAN#81	RP-181779	1126	-	Α	Correction on TDD HARQ-ACK reporting procedure for different UL/DL configurations	15.3.0
2018-09	RAN#81	RP-181779	1128	-	Α	Correction on PUCCH format 4 HARQ-ACK procedure without adaptive codebook	15.3.0
2018-09	RAN#81	RP-181784	1131		Α	Correction to PDSCH RE mapping in TM10	15.3.0
2018-09	RAN#81	RP-181780	1133		Α	Correction on advanced CSI codebook	15.3.0
2018-09	RAN#81	RP-181794	1137	_	Α	Corrections related to capabilities for SRS Carrier Switching	15.3.0
2018-09	RAN#81	RP-181788	1139		Α	Capability for FeMBMS	15.3.0
2018-09	RAN#81	RP-181778	1141	<u> </u>	Α	SRS transmission in UpPTS for special subframe configuration 10	15.3.0
	RAN#81	RP-181778	1143	- 1	Α	HARQ-ACK payload size determination for crs-less special	15.3.0

2018-09	RAN#81	RP-181785	1144	-	F	Correction on aperiodic CSI triggering for feCoMP in 36.213	15.3.0
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	-	Α	Clarification for antenna selection	15.3.0
2018-09	RAN#81	RP-181800	1153	-	Α	Change request on UE transmit antenna selection	15.3.0
2018-09	RAN#81	RP-181797	1154	-	В	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	-	Α	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	1	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	1	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