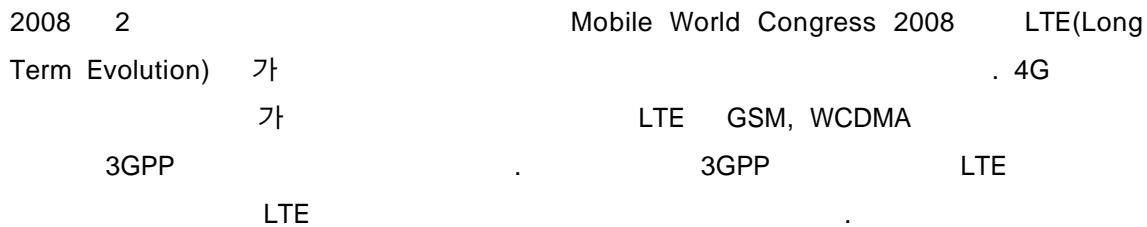


[] LTE



LTE

2004 12 RAN Evolution Workshop
 OFDM(Orthogonal Frequency Division Multiple Access)
 multiple output :)
 Uplink 86.4 Mbps . LTE

LTE 3GPP Rel-8
 MIMO(Multiple Input
 Downlink 326.4 Mbps,

< 1> LTE

Speed	Downlink Peak data rate (64QAM)	100 Mbps (SISO) 172.8 Mbps (2x2 MIMO) 326.4 Mbps (4x4 MIMO)
	Uplink Peak data rate	50 Mbps (QPSK) 57.6 Mbps (16QAM) 86.4 Mbps (64QAM)
Mobility	High performance	15 ~ 120 km/h
	Functional	120 ~ 350 km/h
	Under consideration	350 ~ 500 km/h
Multiple Access	Downlink	OFDMA
	Uplink	SC-FDMA

< : <http://cp.literature.agilent.com/litweb/pdf/5989-7898EN.pdf>>

3GPP LTE

3GPP GSM, WCDMA, LTE
 WG WG(Working Group)
 , LTE 3GPP RAN WG5
 (3GPP) (www.3gpp.org)). 3GPP
 LTE 36 (Evolved UTRA aspects)
 LTE (Conformance Test) RAN
 WG5 ,

< 2> LTE

	Type	Description
36.508	Common Test Environment	Evolved Universal Terrestrial Radio Access(E-UTRA) and Evolved Universal Terrestrial Radio Access Network(E-UTRAN); Common test environments for User Equipment(UE) conformance testing
36.521-1	RF RRM	Evolved Universal Terrestrial Radio Access(E-UTRA) and Evolved Universal Terrestrial Radio Access Network(E-UTRAN); User Equipment(UE) conformance specification Radio transmission and reception Part 1: conformance testing
36.521-2	Conformance	Evolved Universal Terrestrial Radio Access(E-UTRA) and Evolved Universal Terrestrial Radio Access Network(E-UTRAN); User Equipment(UE) conformance specification Radio transmission and reception Part 2: ICS
36.523-1		Evolved Universal Terrestrial Radio Access(E-UTRA) and Evolved Universal Terrestrial Radio Access Network(E-UTRAN); User Equipment(UE) conformance specification; Part 1: Protocol conformance specification
36.523-2	Protocol Conformance	Evolved Universal Terrestrial Radio Access(E-UTRA) and Evolved Universal Terrestrial Radio Access Network(E-UTRAN); User Equipment(UE) conformance specification; Part 2: ICS
36.523-3		Evolved Universal Terrestrial Radio Access(E-UTRA) and Evolved Universal Terrestrial Radio Access Network(E-UTRAN); User Equipment(UE) conformance specification; Part 3: Abstract Test Suites(ATS)

< : www.3gpp.org >

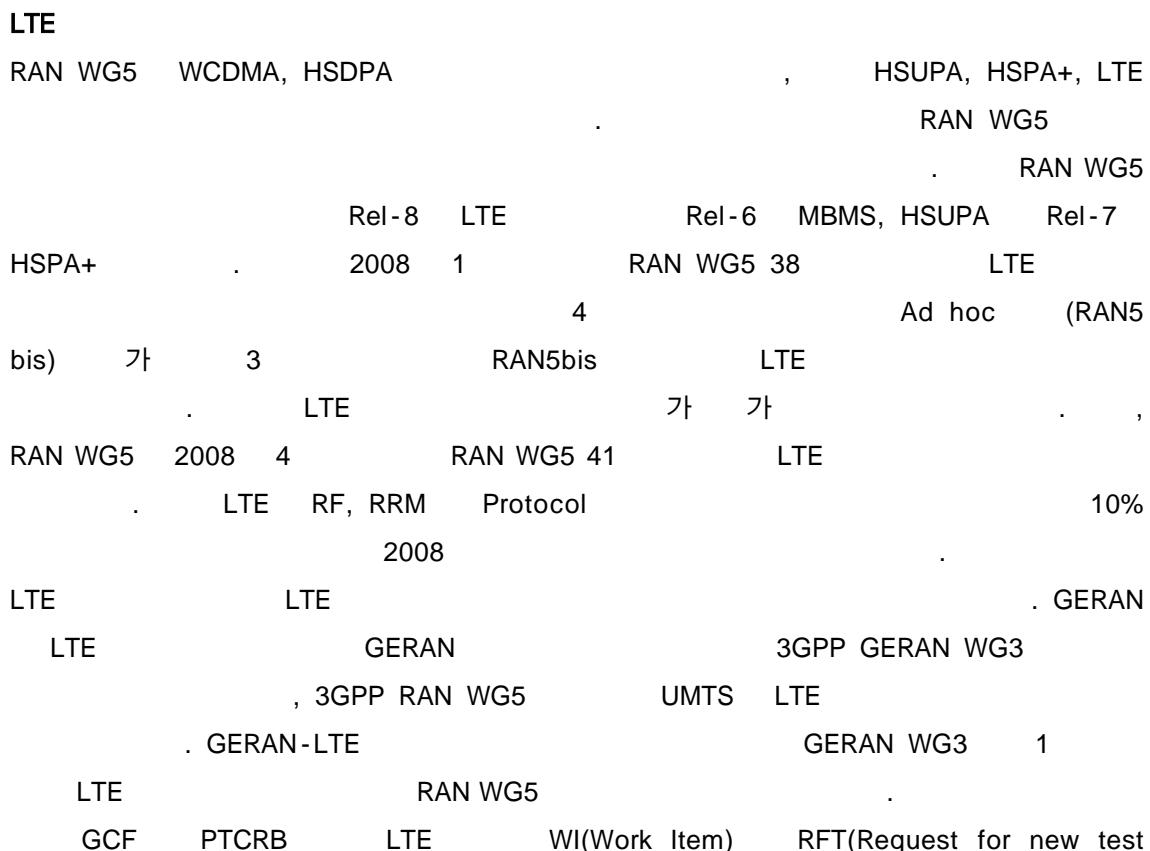
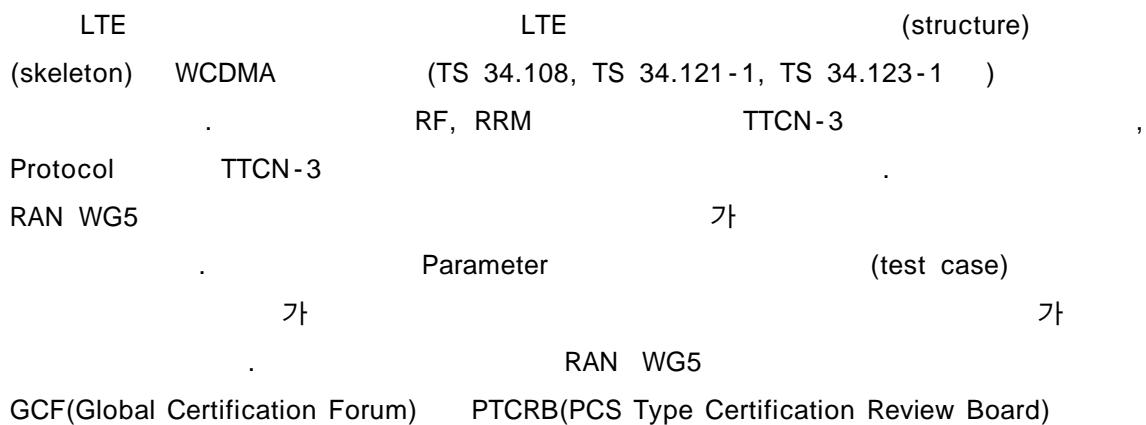
(skeleton)

< 3> LTE

36.521-1 : RF, RRM		36.523-1 : Protocol	
Clause	Description	Clause	Description
4	General section	6	Idle Mode Operations
5	Frequency band and channel assignments	7	Layer 2
6	Transmitter Characteristics	8	Radio Resource Control RRC
7	Receive Characteristics	9	EPS Mobility Management procedure
8	Performance Requirements, Requirement for	10	Session Management

	RRM		
		11	General Tests
		12	Interoperability Radio Bearer Tests
		13	MBMS
		14	Non-3GPP

< : www.3gpp.org>



case)가 , RAN WG5 GCF , PTCRB WI/RFT
(rapporteur)가 GCF, PTCRB LTE

LTE
4G 가 LTE
3GPP RAN WG5 , 2008 LTE
DoCoMo, R&S, Anritsu LTE
LTE

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