

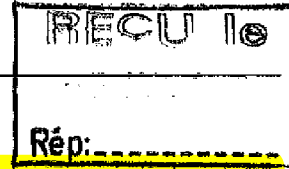
# Exhibit 19



**IPR information statement and licensing declaration**

**IPR Holder/Organisation**

Legal Name: SAMSUNG ELECTRONICS CO., LTD. \_\_\_\_\_



**Signatory**

**Name:** Seung Gun, Park \_\_\_\_\_

**Position:** Vice President \_\_\_\_\_

**Department:** Telecommunication R&D Center \_\_\_\_\_

**Address:** Dong Suwon P.O.BOX 105, 416, Maetan-3Dong, Yeongtong-Gu, \_\_\_\_\_  
 Suwon-City, Gyeonggi-Do, Korea 442-600 \_\_\_\_\_

**Tel.:** 82-31-279-5067 \_\_\_\_\_ **Fax:** 82-31-279-4560 \_\_\_\_\_

**E-mail:** jh1.jung@samsung.com \_\_\_\_\_

**IPR information statement**

In accordance with the ETSI IPR Policy, Clause 4.1, I hereby inform ETSI that,  
 with reference to the technical proposal identified as 3GPP \_\_\_\_\_  
 and/or  
 in relation to Work Item No. \_\_\_\_\_  
 and/or

with reference to ETSI Standard No. TS 23.272, TS 23.401, TS 25.211, TS 25.212, TS 25.213, TS 25.214, TS 25.309, TS 25.321, TS 25.331, TS 25.346, TS 25.423, TS 25.430, TS 26.114, TS 36.211, TS 36.212, TS 36.213, TS 36.304, TS 36.321, TS 36.322, TS 36.331, TS 45.002, TS 45.004

it is my belief that the IPRs listed in the attached IPR information statement annex are, or are likely to become, Essential IPRs in relation to that Standard.

**IPR licensing declaration**

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in the attached *IPR information statement annex* and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

This undertaking is made subject to the condition that those who seek licences agree to reciprocate the same in respect of the STANDARD in accordance with Clause 6.1 of the ETSI IPR Policy (delete this paragraph if this condition is not required).

The construction, validity and performance of this DECLARATION shall be governed by the laws of France.

**Place, Date:**

2008-12-30  
 (Place, Date)

**Signature:**

*S. G. M*  
 (Signed for and on behalf of the SIGNATORY)

Please return this form duly signed to: ETSI Director-General  
 ETSI - 650, route des Lucioles - F-06921 Sophia Antipolis Cedex - FRANCE  
 Fax. +33 (0) 4 93 65 47 16



IPR information statement annex

ETSI Standard, Technical Specification or Work Item				Patent Proprietor	Application No.	Patent No.	Patent Subject/Title	Country of registration	OPTIONAL INFORMATION: Other Patents/Applications No. in same family*	
Project or Standard name	Work Item or Standard No.	Section	Version (V.X.X.X)						Patent/Application No.	Country Applicable
UMTS	3GPP TS25.212	4.2.3	V6.0.0	Samsung Electronics Corporation	1998-0013957	0429506	CHANNEL ENCODING/DECODING APPARATUS AND METHOD FOR COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	733641	AUSTRALLIA
									2292568	CANADA
									ZL99800575.4	CHINA
									206401	INDIA
									2212100	RUSSIAN FEDERATION
									6,885,710	UNITED STATES
									7,372,921	UNITED STATES
UMTS	3GPP TS25.211	5.3.2.6	V3.0.0	Samsung Electronics Corporation	1999-0019647	0492968	Apparatus and method for gated transmission in CDMA communication system	KOREA (REPUBLIC OF)	766485	AUSTRALLIA
									ZL00818719.3	CHINA
									1183806	GERMANY
									1183806	FILAND
									1183806	FRANCE
									1183806	UTTED KINGDOM
									213355	INDIA
									1183806	ITALLIA
									1183806	SWEDEN
7,085,254	UNITED STATES									
UMTS	3GPP	8.5	V6.0.0	Samsung	2000-0030497	038981	Method for selecting RACH in a	KOREA	ZL01801560.3	CHINA

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	TS25.211			Electronics Corporation		8	CDMA mobile communication system	(REPUBLIC OF)	1212853	GERMANY
									1212853	FRANCE
									1212853	UNITED KINGDOM
									1212853	ITALIA
									3801983	JAPAN
									7,061,890	UNITED STATES
UMTS	3GPP TS25.214	5, Annex B	V6.0.0	Samsung Electronics Corporation	1997-0036263	0274087	Apparatus and method for calibrating moment-of-inertia and cent-of-gravity	KOREA (REPUBLIC OF)	ZL98117597.X	CHINA
									6,212,364	UNITED STATES
UMTS	3GPP TS25.214	5.2.11	V5.6.0	Samsung Electronics Corporation	1998-0028975	0342525	Processing packet data in mobile communication system	KOREA (REPUBLIC OF)	2302269	CANADA
									ZL99801423.0	CHINA
									215011	INDIA
									3449985	JAPAN
									2183387	RUSSIAN FEDERATION
									6,728,233	UNITED STATES
UMTS	3GPP TS25.211	7	V6.0.0	Samsung Electronics Corporation	P1999-0027166	0383603	Channel assignment apparatus and method for a common packet channel in a WCDMA mobile communication system		1201040	AUSTRIA
									1353448	AUSTRIA
									1443667	AUSTRIA
									766021	AUSTRALIA
									1201040	BELGIUM
									1353448	BELGIUM
									1443667	BELGIUM
									2378404	CANADA
									1201040	SWISS



									1353448	SWISS
									1443667	SWISS
									ZL00811435.8	CHINA
									1443667	CYPRUS
									20023258.4	GERMANY
									1201040	GERMANY
									1353448	GERMANY
									1443667	GERMANY
									1201040	DENMARK
									1353448	DENMARK
									1443667	DENMARK
									1201040	SPAIN
									353448	SPAIN
									1443667	SPAIN
									1201040	FINLAND
									1353448	FINLAND
									1443667	FINLAND
									1201040	FRANCE
									1353448	FRANCE
									1443667	FRANCE



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									1201040	UNITED KINGDOM
									1353448	UNITED KINGDOM
									1443667	UNITED KINGDOM
									1353448	GREECE
									1443667	GREECE
									ID0016794	INDONESIA
									1201040	IRELAND
									1353448	IRELAND
									1443667	IRELAND
									147347	ISRAEL
									212570	INDIA
									1201040	ITALIA
									1353448	ITALIA
									1443667	ITALIA
									3579028	JAPAN
									3967339	JAPAN
									1201040	LIECHTENSTEIN
									1443667	LIECHTENSTEIN
									1353448	LIECHTENSTEIN
									1443667	LUXEMBOURG



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									1443667	LUXEMBOURG
									1201040	MONACO
									1353448	NETHERLANDS
									1443667	NETHERLANDS
									1201040	PORTUGAL
									1353448	PORTUGAL
									1443667	PORTUGAL
									2221331	RUSSIAN FEDERATION
									1201040	SWEDEN
									1353448	SWEDEN
									1443667	SWEDEN
									6,859,445	UNITED STATES
									2002/0090	REPUBLIC OF SOUTH AFRICA
UMTS	3GPP TS 25.212	4.2.3	V.6.0.0	Samsung Electronics Corporation	1998-0057959	034617 0	Interleaving/deinterleaving device and method for communication system	KOREA (REPUBLIC OF)	6,668,343	UNITED STATES
									2319726	CANADA
									ZL99803175.5 ZL03156666.9	CHINA
									201435	INDIA
									3961770	JAPAN
									2217864	RUSIA



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									738762	AUSTRALIA
UMTS	3GPP TS 25.212	4.2.7	V.6.0.0	Samsung Electronics Corporation	1998-0062725	031570 8	Puncturing device and method for turbo encoder in mobile communication system	KOREA (REPUBLIC OF)	2321977	CANADA
									ZL99803456.8	CHINA
									219535	INDIA
									3359911	JAPAN
									2185025	RUSSIAN FEDERATION
									6,621,873	UNITED STATES
UMTS	3GPP TS 25.212	4.2.3	V.6.0.0	Samsung Electronics Corporation	1998-0062709	032197 8	Iterative decoder and an iterative decoding method for a communication system	KOREA (REPUBLIC OF)	761792	AUSTRALIA
									2354580	CANADA
									ZL99815196.3	CHINA
									210879	INDIA
									3449987	JAPAN
									2216851	RUSIA
UMTS	3GPP TS 25.212	4.2.3	V.6.0.0	Samsung Electronics Corporation	2000-0018037	036255 7	2-dimensional interleaving apparatus and method	KOREA (REPUBLIC OF)	759580	AUSTRALIA
									2368027	CANADA
									210935	INDIA
									3574405	JAPAN
									6,591,381	UNITED STATES





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UMTS	3GPP TS 25.212	5.3.2.6	V.7.5.0	Samsung Electronics Corporation	2000-0019301	037433 6	Apparatus and method for gated transmission in a CDMA communication system	KOREA (REPUBLIC OF)	765329	AUSTRALIA
									2371958	CANADA
									ZL00806189.0	CHINA
									145548	ISRAEL
									213350	INDIA
									2233543	RUSSIAN FEDERATION
									6,747,963	UNITED STATES
UMTS	3GPP TS 25.214	Annex C	V.6.0.0	Samsung Electronics Corporation	1999-0014737	029067 8	cell search apparatus and method in cdma mobile communication system	KOREA (REPUBLIC OF)	764417	AUSTRALIA
									2371205	CANADA
									ZL00806632.9	CHINA
									1173931	GERMANY
									1173931	EUROPEAN PATENT OFFICE
									1173931	FRANCE
									1173931	UNITED KINGDOM
									3730125	JAPAN
7,289,483	UNITED STATES									
UMTS	3GPP TS 25.211	5.2.1 5.3.2	V.6.0.0	Samsung Electronics Corporation	2000-0039155	033024 4	Data rate detection device and method for a mobile communication system	KOREA (REPUBLIC OF)	760820	AUSTRALIA
									2341577	CANADA
									ZL00801355.1	CHINA
									1114530	GERMANY



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									1114530	EUROPEAN PATENT OFFICE
									1114530	SPAIN
									1114530	FINLAND
									1114530	FRANCE
									1114530	UNITED KINGDOM
									141636	ISRAEL
									1114530	ITALY
									3553547	JAPAN
									2214688	RUSIA
									1114530	SWEDEN
									6,792,041	UNITED STATES
UMTS	3GPP TS 25.321	9.2.5.3.2	V.6.9.0	Samsung Electronics Corporation	2000-0071755	035763 1	Apparatus and method for assigning a common packet channel in a CDMA communication system	KOREA (REPUBLIC OF)	760229	AUSTRALIA
									2392886	CANADA
									ZL00818399.6	CHINA
									149656	ISRAEL
									3807982	JAPAN
									2262202	RUSSIAN FEDERATION
									6,963,540	UNITED STATES
									2002/5150	SOUTH AFRICA
UMTS	TS 25.211	5.2	v7.5.0	Samsung Electronics Corporation	P2001-0008037	P03656 13	Apparatus and method for assigning a common packet channel in a CDMA communication system	KOREA (REPUBLIC OF)	759898	AUSTRALIA
									2370670	CANADA
									ZL01800233.1	CHINA
									1190496	GERMANY
									1313332	GERMANY

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									1190496	EUROPEAN PATENT OFFICE
									03003595.0	EUROPEAN PATENT OFFICE
									03003596.8	EUROPEAN PATENT OFFICE
									01908412.8	FINLAND
									01908412.8	FRANCE
									01908412.8	GERMANY
									01908412.8	ITALIA
									3512774	JAPAN
									01908412.8	SWEDEN
									7,113,496	UNITED STATES
									765694	AUSTRALIA
									2372557	CA
									ZL01800858.5	CHINA
									1186125	GERMANY
									1186125	EUROPEAN PATENT OFFICE
									4009579.6	EUROPEAN PATENT OFFICE
									1186125	FI
									1186125	FRANCE
									1186125	UNITED KINGDOM
									1186125	ITALIA
									3753659	JAPAN
									1186125	SE
									7233577	UNITED STATES
UMTS	TS 25.331	10.3.6	v6.0.0	Samsung Electronics Corporation	P2001-0018925	P04073 43	Method for measuring confusion rate of a common packet channel in a CDMA communication system	KOREA (REPUBLIC OF)		
MBMS	TS 25.346	11.2	v7.5.0	Samsung Electronics	P2002-0014222		Apparatus and method for controlling packet data to provide	KOREA (REPUBLIC)	ZL03138466.8	CHINA
									10311321.5	GERMANY



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				Corporation			multimedia broadcast/multicast services in a CDMA mobile communication system	OF)	303183	FRANCE
									2387748	UNITED KINGDOM
									MI2003A000495	ITALIA
									3753700	JAPAN
									387029	UNITED STATES
									ZL03127284.3	CHINA
									1372350	GERMANY
MBMS	TS 25.331	8.6.9, 10.2.16, 10.3	v6.6.0	Samsung Electronics Corporation	P2002-0033278		Apparatus and method for determining soft handover in a CDMA mobile communication system providing mbms service	KOREA (REPUBLIC OF)	1372350	EUROPEAN PATENT OFFICE
									1372350	FRANCE
									1372350	UNITED KINGDOM
									3830920	JAPAN
									463021	UNITED STATES
MBMS	TS 25.331	10.2.16	v6.4.0	Samsung Electronics Corporation	P2004-0026266		Method for transmitting and receiving control information in a mobile communication system supporting multimedia broadcast/multicast service	KOREA (REPUBLIC OF)	5733399.9	EUROPEAN PATENT OFFICE
									2007-508281	JAPAN
									108,537	UNITED STATES
LTE	TS 36.213	9	v8.4.0	Samsung Electronics Corporation	P2004-0064897		Apparatus and method for allocating frequencies in an ofdm mobile communication system supporting high speed downlink packet access service	KOREA (REPUBLIC OF)	2005203660	AUSTRALIA
									200510113210.2	CHINA
									5017860.7	EUROPEAN PATENT OFFICE
									751/KOL/05	INDIA
									236148/2005	JAPAN
									202,091	UNITED STATES
LTE	3GPP TS 36.212	5.2.2.6	V.8.3.0	Samsung Electronics	2006-0129696		METHOD AND APPRATUS FOR TRANSMITTING/RECEIVING	KOREA (REPUBLIC	07024493.4	EUROPEAN PATENT

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				Corporation			DATA AND CONTROL INFORMATION THROUGH AN UPLINK IN A WIRELESS COMMUNICATION SYSTEM	OF)	958,709 KR20078/006651	OFFICE UNITED STATES PCT
LTE	3GPP TS 36.211	5.3	V.8.3.0	Samsung Electronics Corporation	2007-0002657		APPARATUS AND METHOD FOR ALLOCATING RESOURCES IN A SINGLE CARRIER-FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM	KOREA (REPUBLIC OF)	08000317.1	EUROPEAN PATENT OFFICE
									971,692	UNITED STATES
									KR2008/000132	PCT
LTE	3GPP TS 36.212	6.9	V.8.3.0	Samsung Electronics Corporation	60/935,300		TRANSMISSION METHODS FOR DOWNLINK ACK/NACK CHANNELS	UNITED STATES		
LTE	3GPP TS 36.321	5.1.2	V.8.3.0	Samsung Electronics Corporation	2006-0103809		METHOD AND APPARATUS FOR ALLOCATING RADIO RESOURCE USING RANDOM ACCESS PROCEDURE IN A MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	07020911.9	EUROPEAN PATENT OFFICE
									924,368	UNITED STATES
									KR2007/005289	PCT
LTE	3GPP TS 36.211	6.8.5	V.8.3.0	Samsung Electronics Corporation	2007-0099537		APPARATUS AND METHOD FOR ALLOCATING CONTROL CHANNEL IN A SINGLE CARRIER FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM	KOREA (REPUBLIC OF)	08017395.8	EUROPEAN PATENT OFFICE
									PCT/KR200800583	PCT

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LTE	3GPP TS 36.211	6.8	V.8.3.0	Samsung Electronics Corporation	2007-0027753		METHOD FOR MAPPING PHYSICAL DOWNLINK CONTROL CHANNEL TO RESOURCES AND APPARATUS FOR TRANSMITTING/RECEIVING THE MAPPED PHYSICAL DOWNLINK CONTROL CHANNEL IN A WIRELESS COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	08005496.8	EUROPEAN PATENT OFFICE
									053,155	UNITED STATES
									KR2008/001582	PCT
LTE	3GPP TS 36.211	5.4.2.1	V.8.3.0	Samsung Electronics Corporation	2007-0001329		METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING CONTROL INFORMATION TO RANDOMIZE INTER-CELL INTERFERENCE IN A MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	08000169.6	EUROPEAN PATENT OFFICE
									08000168.8	EUROPEAN PATENT OFFICE
									970,358	UNITED STATES
									970,234	UNITED STATES
									KR2008/000077	PCT
									KR2007/000076	PCT
LTE	3GPP TS 36.213	10.1	V.8.3.0	Samsung Electronics Corporation	2007-0003038		METHOD AND APPARATUS FOR ALLOCATING AND SIGNALING ACK/NACK RESOURCES IN A WIRELESS COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	972,372	UNITED STATES
									KR2008/000168	PCT
LTE	3GPP TS 36.211 36.213	6.9.3 9.1.2	V.8.3.0	Samsung Electronics Corporation	2007-0041034		METHOD AND APPARATUS FOR ALLOCATING ACKCH RESOURCES IN A WIRELESS COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	110,649	UNITED STATES
									KR2008/002372	PCT



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LTE	3GPP TS 36.211 36.213	5.4.1 8.2	V.8.3.0	Samsung Electronics Corporation	2007-0041645		METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING UPLINK CHANNEL SOUNDING REFERENCE SIGNALS IN A WIRELESS COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	08008138.3	EUROPEAN PATENT OFFICE
									110,828	UNITED STATES
									KR2008/002365	PCT
LTE	3GPP TS 36.213	9.1.1	V.3.0.0	Samsung Electronics Corporation	2007-0042817		METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING CONTROL CHANNELS BY RESTRICTING A SET OF THE CONTROL CHANNELS IN A WIRELESS COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	08008366.0	EUROPEAN PATENT OFFICE
									112,376	UNITED STATES
									KR2008/002507	PCT
LTE	3GPP TS 23.272	6.3	V.8.0.0	Samsung Electronics Corporation	2008-0044208		PROVIDING METHOD AND APPARATUS FOR PROVIDING VOICE CALL IN MOBILE TELECOMMUNICATION SYSTEM	KOREA (REPUBLIC OF)		
LTE	3GPP TS 36.211	6.9.1 6.9.2 6.9.3	V.8.3.0	Samsung Electronics Corporation	12/105,176		TRANSMIT DIVERSITY FOR ACKNOWLEDGEMENT AND CATEGORY 0 BITS IN A WIRELESS COMMUNICATION SYSTEM	UNITED STATES	KR2008/002336	PCT



LTE	3GPP TS 36.213	7.1.3	V8.3.0	Samsung Electronics Corporation	12/155,097		CDD PRECODING FOR X_X_X_OPEN LOOP SU MIMO	UNITED STATES	KR2008/003212	PCT
LTE	3GPP TS 36.212	5.3.1.1	V.8.3.0	Samsung Electronics Corporation	60/996,857		PHYSICAL BROADCAST CHANNEL (PBCH) TRANSMISSION FOR RELIABLE DETECTION OF ANTENNA CONFIGURATION	UNITED STATES	KR2008/007108	PCT
LTE	3GPP TS 36.213	7.2.2	V.8.3.0	Samsung Electronics Corporation	12/284,822		SYSTEM AND METHOD FOR MULTIPLEXING ON AN LTE UPLINK CONTROL CHANNEL	UNITED STATES		
LTE	3GPP TS 36.211	5.4.1 5.4.2	V.8.3.0	Samsung Electronics Corporation	2008-0092278		RESOURCE REMAPPING AND REGROUPING IN A WIRELESS COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	12/200,462  KR2008/005569	UNITED STATES  PCT





LTE	3GPP TS 36.211	5.4.1, 5.4.2	v8.4.0	Samsung Electronics Corporation	12/289,978		Methods of Uplink Channelization in LTE	UNITED STATES		
LTE	3GPP TS 36.213	5.2	v8.3.0	Samsung Electronics Corporation	61/006,343		Methods and Apparatus for Downlink PDSCH Power Setting	UNITED STATES		
LTE	3GPP TS 36.212	5.3.3.1.	V8.3.0	Samsung Electronics Corporation	882,316		Precoding Signaling in a MIMO Wireless Communication System	UNITED STATES		
LTE	3GPP TS 36.212	5.3.3.1.5	V8.3.0	Samsung Electronics Corporation	12/222,113		Asynchronous Hybrid ARQ Process Indication in a MIMO Wireless Communication System	UNITED STATES	08017799.1	EUROPEAN PATENT OFFICE
									PCT/KR2008/0059	P C T
LTE	3GPP TS36.212	5.3.3.1.3 , 5.3.3.1.5	V8.3.0(P1 4	Samsung Electronics Corporation	11/882,313		MIMO Control Signaling in a Wireless Communication System	UNITED STATES		



LTE	3GPP TS36.213	7.2.1	V8.3.0	Samsung Electronics Corporation	11/907,944		Efficient Uplink Feedback in a Wireless Communication System	UNITED STATES	08005035.4	EUROPEAN PATENT OFFICE
									KR2008/001421	P C T
LTE	3GPP TS 36.211	5.4, 5.4.3	v8.3.0	Samsung Electronics Corporation	136,461		Transmission of Control Signals in SC-FDMA Communication Systems	UNITED STATES	08010607.3	EUROPEAN PATENT OFFICE
									KR2008/003252	P C T
LTE	3GPP TS 36.212	5.2.2.8	v8.3.0	Samsung Electronics Corporation	133,120		Control and Data Signaling in SC-FDMA Communication Systems	UNITED STATES	08010383.1	EUROPEAN PATENT OFFICE
									KR2008/003170	P C T
LTE	3GPP TS36.211	5.4, 5.4.2	v8.3.0	Samsung Electronics Corporation	174,098		Transmission of CQI and Acknowledgement Signals in SC-FDMA	UNITED STATES	KR2008/0041010	P C T
LTE	3GPP TS36.212	5.2.2.6	v8.3.0	Samsung Electronics Corporation	61/025,925		Multiplexing Control and Data Signaling in SC-FDMA Communication Systems	UNITED STATES		



LTE	3GPP TS36.212	5.1.2	v8.3.0	Samsung Electronics Corporation	12/076,938		Methods and Apparatus for Mapping Modulation Symbols to Resource in OFDM Systems	UNITED STATES	KR2008/003018	P C T
LTE	3GPP TS36.212	5.1.4.1.2	v8.3.0	Samsung Electronics Corporation	12/155,096		Methods and Apparatus for Channel Interleaving in OFDM Systems	UNITED STATES	KR2008/003206	P C T
LTE	3GPP TS 36.321	5.1.5	v8.4.0	Samsung Electronics Corporation	P2008-0092344		APPARATUS AND METHOD FOR PROCESSING INTERRUPT OF UPPER MESSAGE IS HAPPENED BY ADAPTIVE RETRANSMISSION COMMAND DURING RANDOM ACCESS PROCEDURE IN MOBILE COMMUNICATION SYSTEM	KOREA(RE PUBLIC OF)		
LTE	3GPP TS 36.331, 36.211	6.6.1	v8.3.0, v8.4.0	Samsung Electronics Corporation	P2007-0013863		Method and apparatus for transmitting/receiving of system information in mobile communication system	KOREA(RE PUBLIC OF)	08002173.6	EUROPEAN PATENT OFFICE
									027,542	UNITED STATES
LTE	3GPP TS 36.321	5.1.5	v8.3.0	Samsung Electronics Corporation	P2007-0014024		A method and apparatus for detecting contention at random access procedure in a wireless communications system	KOREA(RE PUBLIC OF)	028,508	UNITED STATES
									KR2008/000623	P C T
LTE	3GPP TS 36.304,	3.1, 6.2.2	v8.3.0	Samsung Electronics	P2007-0004900		APPARATUS AND METHOD FOR CELL SELECTION	KOREA(RE PUBLIC	08000748.7	EUROPEAN PATENT

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	36.331			Corporation			CONSIDERING HOME CELL/ PRIVATE NETWORK IN WIRELESS SYSTEM	OF)		OFFICE
									015,182	UNITED STATES
									KR2008/000276	P C T
LTE	3GPP TS 36.231	5.3.1	v8.1.0	Samsung Electronics Corporation	P2008- 0078918		A method for allocating resources of re-transmission in a wireless communication system and an apparatus thereof	KOREA(RE PUBLIC OF)		
LTE	3GPP TS 36.322	8.1.0	v8.1.0	Samsung Electronics Corporation	P2006- 0033964		METHOD AND APPARATUS FOR INFERENCEING STATUS REPORT GENERATION TIME IN A MOBILE COMMUNICATION SYSTEM	KOREA(RE PUBLIC OF)	2007239212	AUSTRALIA
									07007717.7	EUROPEAN PATENT OFFICE
									2148/MUMNP/2008	INDIA
									787,425	UNITED STATES
									KR2007/001835	P C T
									028,493	UNITED STATES
GERAN	3GPP TS 45.002 ,T S 45.004	5.2., 4.	v7.6.0, v7.1.0	Samsung Electronics Corporation	P2007- 0012983		Method for Generating Training Sequence Codes in Communication System	KOREA(RE PUBLIC OF)	KR2008/000740	P C T

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HSPA+	3GPP TS 25.214	5.1.2.2.2 .3	V8.0.0	Samsung Electronics Corporation	976/CHE/2007	-	A METHOD AND SYSTEM FOR TRANSMIT POWER CONTROL MANAGEMENT IN HSPA	India	KR2008/002604	PCT
UMTS	3GPP TS 26.114	9.3	V8.0.0	Samsung Electronics Corporation	2008-0001775	-	APPARATUS AND METHOD FOR CONTROLLING OF INTRA- REFRESHING IN VIDEO TELEPHONY COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	-	-
LTE	3GPP TS 36.321	5.4.5	V8.1.0	Samsung Electronics Corporation	2006-0113011	-	METHOD AND APPARATUS FOR BUFFER STATUS REPORT IN MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	KR2007/005667	PCT
LTE	3GPP TS 36.321	5.4.6	V8.3.0	Samsung Electronics Corporation	2008-0003669	-	Method and apparatus for reporting UE power headroom information in mobile communication system	KOREA (REPUBLIC OF)	-	-
LTE	3GPP TS 36.321	5.7	V8.1.0	Samsung Electronics Corporation	2007-0073705	-	METHOD AND ARRARTUS FOR DRX MODE UE IN MOBILE TELECOMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	-	-
LTE	3GPP TS	5.7	V8.4.0	Samsung	2002-0034704	-	APPARATUS FOR PAGING OF	KOREA	2003204794	AUSTRALIA



	36.321			Electronics Corporation			MULTIMEDIA BROADCAST/MULTICAST SERVICE IN MOBILE COMMUNICATION SYSTEM AND METHOD THEROF	(REPUBLIC OF)	03125548.5 1377099 1377099 1377099 1377099 175421/2003 7,395,076	CHINA GERMANY European Patent Office FRANCE UNITED KINGDOM ITALIY JAPAN UNITED STATES
LTE	3GPP TS 36.211	5.7	V8.4.0	Samsung Electronics Corporation	200810002412.2		An apparatus and method to transmit random access signal and sounding reference signal	CHINA		
LTE	3GPP TS 36.211	5.5.3.3	V8.4.0	Samsung Electronics Corporation	200810099452.4		One method and facility to transmit SRS in LTE TDD system	CHINA		
LTE	3GPP TS 36.212	5.2	V8.4.0	Samsung Electronics Corporation	200810004863.0		One method to transmit SRS in LTE TDD system	CHINA		



LTE	3GPP TS 36.212	5.2	V8.4.0	Samsung Electronics Corporation	200710143148. 0	An apparatus and method to transmit the segments of transport block	CHINA		
LTE	3GPP TS 36.211	4.2,6.10 .1	V8.3.0	Samsung Electronics Corporation	200710097696. 4	An Apparatus and Method to Transmit Downlink Reference Signal in Time Division Duplex Systems	CHINA		
LTE	3GPP TS 36.211	6.9	V8.4.0	Samsung Electronics Corporation	200710090566. 8	An Apparatus and Method to Transmit Downlink Control Signaling in Time Division Duplex Systems	CHINA		
LTE	3GPP TS 36.213	7.2	V8.4.0	Samsung Electronics Corporation	200510134076. 4	Method and Apparatus for Channel Quality Indicator Report	CHINA	.06835375.	European Patent Office
								3073/CHENP/2008	INDIA
								2008125150	RUSSIAN FEDERATION
								158,881	UNITED STATES



MBMS	3GPP TS 25.346	8.3.3	V7.4.0	Samsung Electronics Corporation	03101605.7		Mobility procedure for UE in RRC connected mode	CHINA		
LTE	3GPP TS 23.401	5.3.3.3	V8.1.1	Samsung Electronics Corporation	200710142522. 5		A method to find proper S-GW	CHINA		
MBMS	3GPP TS 25.423	8.3.1	V7.0.0	Samsung Electronics Corporation	02130570.6		MBMS service PtP and PtM channel exchange	CHINA		
HSUPA	3GPP TS 36.213	7.2	v8.4.0	Samsung Electronics Corporation	200510096548. 1		A method for SRNC to control the serving grant in the new serving cell	CHINA		
LTE	3GPP TS 36.300	10.1.2.2. 1	v8.1.0	Samsung Electronics Corporation	200710088233. 1		A method and procedure to release resources at the source enhanced Node-B during handover	CHINA		





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LTE	3GPP TS 36.213	7.2	v8.1.0	Samsung Electronics Corporation	12/232,376		METHODS AND APPARATUS FOR CHANNEL QUALITY INDICATION FEEDBACK IN A COMMUNICATION SYSTEM	UNITED STATES		European Patent Office
										PCT
LTE	3GPP TS 36.213	9.1.2	v8.3.0	Samsung Electronics Corporation	12/210,864		METHODS AND APPARATUS TO ALLOCATE ACKNOWLEDGEMENT CHANNELS	UNITED STATES		European Patent Office
										PCT
LTE	3GPP TS 36.213	7.1.3	v8.3.0	Samsung Electronics Corporation	12/155,319		TRANSMIT METHODS WITH DELAY DIVERSITY AND SPACE- FREQUENCY DIVERSITY	UNITED STATES	08011536.3	European Patent Office
									KR2008/003646	PCT
LTE	3GPP TS 36.211	5.4.3	V8.3.0	Samsung Electronics Corporation	182,556		TRANSMISSION OF SOUNDING REFERENCE SIGNALS FOR VOLP TYPE SERVICES IN SC- FDMA COMMUNICATION SYSTEMS	UNITED STATES	08013689.8	European Patent Office
									KR2008/004442	PCT
X LTE	3GPP TS 36.212	5.2	V8.3.0	Samsung Electronics Corporation			DETECTING ABSENCE OF ACKNOWLEDGMENT SIGNALS EXPECTED WITH DATA TRANSMISSION IN SC-FDMA COMMUNICATION SYSTEM	KR		
LTE	3GPP TS 36.211	6.3.5	V8.3.0	Samsung Electronics Corporation	11/390,125		SYSTEM AND METHOD FOR CHANNEL ESTIMATION IN A DELAY DIVERSITY WIRELESS COMMUNICATION SYSTEM	UNITED STATES	200680014720.7	CHINA
									06732907.8	European Patent Office
									4209/KOLNP/2007	INDIA
									2006/001718	PCT
LTE	3GPP TS 36.213	7.1	V8.3.0	Samsung Electronics Corporation	11/708,177		SYSTEM AND METHOD FOR SUBCARRIER ALLOCATION SIGNALING IN A MULTICARRIER WIRELESS NETWORK	UNITED STATES		
LTE	3GPP TS 36.211	5	V8.3.0	Samsung Electronics Corporation	11/374,928		APPARATUS AND METHOD FOR FFT PRE-CODING OF DATA TO REDUCE PAPR IN A MULTI- CARRIER WIRELESS NETWORK	UNITED STATES		
LTE	3GPP TS	6.10	V8.3.0	Samsung	11/762,592		APPARATUS AND METHOD FOR	UNITED		

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	36.211			Electronics Corporation			BROADCAST PILOT TRANSMISSION IN A WIRELESS COMMUNICATION NETWORK	STATES		
LTE	3GPP TS 36.211	6.3.4	V8.3.0	Samsung Electronics Corporation	11/327,799		METHOD AND SYSTEM FOR INTRODUCING FREQUENCY SELECTIVITY INTO TRANSMISSIONS IN AN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING NETWORK	UNITED STATES		
LTE	3GPP TS 36.211	6.3.4	V8.3.0	Samsung Electronics Corporation	11/824,832		SYSTEM AND METHOD FOR PERFORMING PRECODING IN A WIRELESS COMMUNICATION SYSTEM	UNITED STATES		GERMANY
									07019335.4	European Patent Office
										SPAIN
										FINLAND
										FRANCE
										UNITED KINGDOM
									2068/DEL/2007	INDIA
										ITALIA
										NETHERLAND
										SWEDEN
									KR2007/004717	PCT
LTE	3GPP TS 36.211	5.4.2	V8.1.0	Samsung Electronics Corporation	P2006-0023756		HYBRID AUTOMATIC REPEAT REQUEST METHOD IN A MOBILE COMMUNICATION SYSTEM, AND TRANSMISSION/RECEPTION METHOD AND APPARATUS USING THE SAME	KR		CHINA
									07715656.0	European Patent Office
										INDIA
										JAPAN
									717.828	UNITED STATES
									KR2007/001260	PCT
LTE	3GPP TS 36.211	5.4.1	V8.3.0	Samsung Electronics Corporation	P2007-0080943		APPARATUS AND METHOD FOR ALLOCATING CODE RESOURCES TO UPLINK ACK-NACK CHANNELS IN A CELLULAR WIRELESS COMMUNICATION SYSTEM	KR	189,410	UNITED STATES
									KR2008/004658	PCT



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LTE	3GPP TS 36.211	5	V8.1.0	Samsung Electronics Corporation	P2004- 0099562		APPARATUS AND METHOD FOR RETRANSMITTING DATA IN MOBILE COMMUNICATION SYSTEM	KR	05026151.0	European Patent Office
									291,031	UNITED STATES
LTE	3GPP TS 36.211	6.1	V8.1.0	Samsung Electronics Corporation	P2005- 0113193		METHOD AND APPARATUS FOR INITIATING COMMUNICATIONS ON A SHARED CHANNEL IN A MOBILE COMMUNICATION SYSTEM	KR	200680044204.9	CHINA
									06124674.0	European Patent Office
									4371/DELNP/2008	INDIA
										JAPAN
									2008120643	RUSSIA
									603,237	UNITED STATES
KR2006/004977	PCT									
LTE	3GPP TS 36.211	6.9	V8.3.0	Samsung Electronics Corporation	12/219,438		Transmission Methods for Downlink ACK/NACK Channels	UNITED STATES		

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