

KT's Remaining Wireless Telecommunication Patents

NO	App #	App Date	Issued #	Issued Date	Country	Declaration
1	12/667000	12/28/2009	8280418	10/2/2012	U.S.A.	
2	12/666219	12/22/2009	10,360,409	7/23/2019	U.S.A.	
3	12/666204	12/22/2009	8284940	10/9/2012	U.S.A.	
4	12/666170	12/22/2009	9325668	4/26/2016	U.S.A.	
5	12/760367	4/14/2010	8761832	6/24/2014	U.S.A.	
6	12/747877	6/11/2010	8472947	6/25/2013	U.S.A.	
7	12/812445	7/9/2010	8380123	2/19/2013	U.S.A.	
8	13/131850	5/27/2011	8929955	1/6/2015	U.S.A.	
9	13/234719	9/16/2011	9851889	12/26/2017	U.S.A.	
10	13/336079	12/23/2011	9173184	10/27/2015	U.S.A.	
11	13/171854	6/29/2011	8879502	11/4/2014	U.S.A.	
12	13/171879	6/29/2011	8718014	5/6/2014	U.S.A.	
13	13/206839	8/10/2011	9374744	6/21/2016	U.S.A.	
14	13/166222	6/22/2011	8804664	8/12/2014	U.S.A.	
15	13/171907	6/29/2011	9078187	7/7/2015	U.S.A.	
16	13/166314	6/22/2011	9479969	10/25/2016	U.S.A.	
17	13/129807	5/17/2011	8868054	10/21/2014	U.S.A.	
18	13/179454	7/8/2011	8560007	10/15/2013	U.S.A.	
19	13/306672	11/29/2011	9413822	8/9/2016	U.S.A.	
20	13/226793	9/7/2011	8913996	12/16/2014	U.S.A.	
21	13/253465	10/5/2011	9280266	3/8/2016	U.S.A.	
22	13/245946	9/27/2011	8982065	3/17/2015	U.S.A.	
23	13/325110	12/14/2011	9142875	9/22/2015	U.S.A.	
24	13/325118	12/14/2011	8760357	6/24/2014	U.S.A.	
25	13/233335	9/15/2011	8694001	4/8/2014	U.S.A.	
26	13/326734	12/15/2011	8862170	10/14/2014	U.S.A.	
27	13/286797	11/1/2011	8504106	8/6/2013	U.S.A.	
28	13/304520	11/25/2011	8611425	12/17/2013	U.S.A.	
29	13/296830	11/15/2011	8351957	1/8/2013	U.S.A.	
30	13/335392	12/22/2011	9037489	5/19/2015	U.S.A.	
31	13/362060	1/31/2012	8913516	12/16/2014	U.S.A.	
32	13/371555	2/13/2012	8554199	10/8/2013	U.S.A.	
33	13/372639	2/14/2012	8457667	6/4/2013	U.S.A.	
34	13/372659	2/14/2012	8423040	4/16/2013	U.S.A.	
35	13/381814	12/30/2011	8391864	3/5/2013	U.S.A.	
36	13/309098	12/1/2011	9078188	7/7/2015	U.S.A.	ITU-T SG13 Appendix
37	13/378564	12/15/2011	8611857	12/17/2013	U.S.A.	
38	13/539929	7/2/2012	8959267	2/17/2015	U.S.A.	
39	13/447455	4/16/2012	8588782	11/19/2013	U.S.A.	
40	13/447340	4/16/2012	8565752	10/22/2013	U.S.A.	
41	13/447381	4/16/2012	9215614	12/15/2015	U.S.A.	
42	13/447414	4/16/2012	8655347	2/18/2014	U.S.A.	
43	13/447349	4/16/2012	8787260	7/22/2014	U.S.A.	
44	13/453036	4/23/2012	9596576	3/14/2017	U.S.A.	
45	13453022	4/23/2012	10,616,814	4/7/2020	U.S.A.	
46	11/521171	9/14/2006	8,300,621	10/30/2012	U.S.A.	
47	11/603498	11/21/2006	8,094,549	1/10/2012	U.S.A.	
48	11/636780	12/11/2006	8,077,792	12/13/2011	U.S.A.	
49	13/553160	7/19/2012	9055498	6/9/2015	U.S.A.	
50	13/563918	8/1/2012	9055503	6/9/2015	U.S.A.	
51	13/569321	8/8/2012	8831614	9/9/2014	U.S.A.	
52	13/570312	8/9/2012	8867432	10/21/2014	U.S.A.	
53	13/587742	8/16/2012	9565606	2/7/2017	U.S.A.	
54	13/660988	10/25/2012	8964643	2/24/2015	U.S.A.	
55	13/661004	10/25/2012	9014146	4/21/2015	U.S.A.	
56	13/689825	11/30/2012	8868086	10/21/2014	U.S.A.	
57	13/707968	12/7/2012	9008101	4/14/2015	U.S.A.	

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58	13/726006	12/22/2012	9485737	11/1/2016	U.S.A.	
59	13/726000	12/21/2012	9357505	5/31/2016	U.S.A.	
60	13/651357	10/12/2012	9398395	7/19/2016	U.S.A.	
61	13/513004	5/31/2012	9565595	2/7/2017	U.S.A.	
62	13/437580	4/2/2012	8942740	1/27/2015	U.S.A.	
63	13/540112	7/2/2012	8949494	2/3/2015	U.S.A.	
64	11/921894	12/10/2007	8160254	4/17/2012	U.S.A.	
65	12/064115	2/19/2008	8019021	9/13/2011	U.S.A.	
66	12/095427	5/29/2008	8160102	4/17/2012	U.S.A.	
67	13/476347	5/21/2012	8898783	11/25/2014	U.S.A.	
68	13/614292	9/13/2012	9325830	4/26/2016	U.S.A.	
69	13/635915	9/19/2012	8977189	3/10/2015	U.S.A.	
70	13/726384	12/24/2012	9766785	9/19/2017	U.S.A.	
71	13/726361	12/24/2012	9542338	1/10/2017	U.S.A.	
72	13/726811	12/26/2012	8904051	12/2/2014	U.S.A.	
73	13/726830	12/26/2012	9514306	12/6/2016	U.S.A.	
74	13/696281	11/5/2012	9232417	1/5/2016	U.S.A.	
75	13/708003	12/7/2012	9136919	9/15/2015	U.S.A.	
76	13/789926	3/8/2013	9173135	10/27/2015	U.S.A.	
77	13/889636	5/8/2013	8929910	1/6/2015	U.S.A.	
78	13/919057	6/17/2013	9648660	5/9/2017	U.S.A.	
79	13/919,146	6/17/2013	9,998,953	6/12/2018	U.S.A.	
80	13/212809	8/18/2011	8,374,145	2/12/2013	U.S.A.	
81	13/818922	2/25/2013	9408188	8/2/2016	U.S.A.	
82	13/876633	3/28/2013	9119126	8/25/2015	U.S.A.	
83	13/886621	5/3/2013	9226112	12/29/2015	U.S.A.	
84	13/913,648	6/10/2013	10154497	12/11/2018	U.S.A.	3GPP RAN1
85	14/111954	10/15/2013	9467878	10/11/2016	U.S.A.	
86	14/111,992	10/10/2013	10182359	1/15/2019	U.S.A.	
87	14/111472	10/11/2013	9231688	1/5/2016	U.S.A.	
88	14/345552	3/18/2014	9571197	2/14/2017	U.S.A.	
89	14/345146	3/14/2014	9686722	6/20/2017	U.S.A.	
90	14/345538	3/18/2014	9654970	5/16/2017	U.S.A.	
91	14/308930	6/19/2014	9645644	5/9/2017	U.S.A.	
92	14/355145	4/29/2014	10205572	2/12/2019	U.S.A.	
93	14/183865	2/19/2014	10,551,987	2/4/2020	U.S.A.	
94	14/372539	7/16/2014	9571184	2/14/2017	U.S.A.	
95	14/378630	8/13/2014	9705657	7/11/2017	U.S.A.	
96	14/333306	7/16/2014	9369194	6/14/2016	U.S.A.	
97	14/329114	7/11/2014	9241290	1/19/2016	U.S.A.	
98	14/486511	9/15/2014	RE46415	5/23/2017	U.S.A.	
99	14/526,639	10/29/2014	10,064,096	8/28/2018	U.S.A.	
100	14/474,266	9/1/2014	10,548,023	1/28/2020	U.S.A.	
101	14/488359	9/17/2014	9699695	7/4/2017	U.S.A.	
102	14/529123	10/30/2014	9288708	3/15/2016	U.S.A.	
103	14/417068	1/23/2015	9807762	10/31/2017	U.S.A.	
104	14/556324	12/1/2014	9432875	8/30/2016	U.S.A.	
105	14/538207	11/11/2014	9167084	10/20/2015	U.S.A.	
106	14/421,562	2/13/2015			U.S.A.	3GPP RAN1
107	14/664855	3/21/2015	9755814	9/5/2017	U.S.A.	3GPP RAN1
108	14/592123	1/8/2015	9713075	7/18/2017	U.S.A.	3GPP RAN1
109	14/443713	5/19/2015	9648614	5/9/2017	U.S.A.	
110	14/440259	5/1/2015	9893848	2/13/2018	U.S.A.	
111	14/434698	4/9/2015	9655126	5/16/2017	U.S.A.	
112	14/770,607	8/26/2015			U.S.A.	3GPP RAN2
113	14/765,904	8/5/2015	10278126	4/30/2019	U.S.A.	3GPP RAN2
114	14/765,334	8/1/2015	10149199	12/4/2018	U.S.A.	3GPP RAN2
115	14/440500	5/4/2015	10098072	10/9/2018	U.S.A.	

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116	14/780176	9/25/2015	9854600	12/26/2017	U.S.A.	3GPP RAN1
117	14/862343	9/23/2015	9585102	2/28/2017	U.S.A.	3GPP RAN1
118	14/652320	6/15/2015	9877222	1/23/2018	U.S.A.	
119	14/652509	6/16/2015	9924433	3/20/2018	U.S.A.	
120	14/877866	10/7/2015	9883000	1/30/2018	U.S.A.	
121	14/652121	6/14/2015	10015704	7/3/2018	U.S.A.	
122	14/901,300	12/28/2015	10095668	10/9/2018	U.S.A.	
123	14/772813	9/4/2015	9813881	11/7/2017	U.S.A.	
124	14/759732	7/8/2015	9491733	11/8/2016	U.S.A.	
125	14/817179	8/3/2015	9402196	7/26/2016	U.S.A.	
126	14/910,026	2/4/2016	10075940	9/11/2018	U.S.A.	3GPP RAN2
127	15/024,484	3/24/2016	10362590	7/23/2019	U.S.A.	3GPP RAN2
128	14/972,551	12/17/2015	10089477	10/2/2018	U.S.A.	
129	14/821,970	8/10/2015	10,548,024	1/28/2020	U.S.A.	
130	14/786176	10/22/2015	9706551	7/11/2017	U.S.A.	IEEE 802.11
131	14/909613	2/2/2016	9936437	4/3/2018	U.S.A.	IEEE 802.11
132	14/902,635	1/4/2016	US 10,187,822	1/22/2019	U.S.A.	IEEE 802.11
133	14/901396	12/28/2015	9900825	2/20/2018	U.S.A.	IEEE 802.11
134	14/902,649	1/4/2016	US 10,271,361	4/23/2019	U.S.A.	IEEE 802.11
135	14/902,450	12/31/2015	US 10,225,860	3/5/2019	U.S.A.	IEEE 802.11
136	14/909,865	2/3/2016	US 10,264,510	4/16/2019	U.S.A.	IEEE 802.11
137	15/032,651	4/28/2016	10362615	7/23/2019	U.S.A.	3GPP RAN2
138	15/029265	4/14/2016	9596660	3/14/2017	U.S.A.	3GPP RAN1
139	15/072,513	3/17/2016	10206219	2/12/2019	U.S.A.	
140	15/054,077	2/25/2016	10080213	9/18/2018	U.S.A.	3GPP RAN2
141	15/178,735	6/10/2016	10097251	10/9/2018	U.S.A.	3GPP RAN1
142	15/176,761	6/8/2016	10,713,071	7/14/2020	U.S.A.	
143	15/256,869	9/6/2016	10855658	12/1/2020	U.S.A.	3GPP RAN2
144	15/256,829	9/6/2016	11006467	5/11/2021	U.S.A.	3GPP RAN2
145	15/514,151	3/24/2017	10334418	6/25/2019	U.S.A.	3GPP RAN1
146	15/260,415	9/9/2016	10039132	7/31/2018	U.S.A.	3GPP RAN2
147	15/342,149	11/3/2016	10425938	9/24/2019	U.S.A.	3GPP RAN1
148	15/338545	10/31/2016	9838071	12/5/2017	U.S.A.	3GPP RAN1
149	15/454,152	3/9/2017	10582493	3/3/2020	U.S.A.	3GPP RAN1
150	15/322407	12/27/2016	10355982	7/16/2019	U.S.A.	
151	15/511,296	3/15/2017	10334481	6/25/2019	U.S.A.	3GPP RAN2
152	15/411,926	1/20/2017	10299180	5/21/2019	U.S.A.	3GPP RAN2
153	15/525,709	5/10/2017	10911942	2/2/2021	U.S.A.	3GPP RAN2
154	15/516,065	3/31/2017	10736175	8/4/2020	U.S.A.	3GPP RAN2
155	15/562,463	9/28/2017	10485042	11/19/2019	U.S.A.	3GPP RAN2
156	15/573,563	11/13/2017	10356582	7/16/2019	U.S.A.	3GPP RAN2
157	15/488,608	4/17/2017	10064103	8/28/2018	U.S.A.	3GPP RAN2
158	15/672,357	8/9/2017			U.S.A.	3GPP RAN1
159	15/672,368	8/9/2017	10517074	12/24/2019	U.S.A.	3GPP RAN1
160	15/616,046	6/7/2017	10,098,114	10/9/2018	U.S.A.	IEEE 802.11
161	15/674,702	8/11/2017	10511941	12/17/2019	U.S.A.	3GPP RAN2
162	15/672,408	8/9/2017	10362570	7/23/2019	U.S.A.	3GPP RAN1
163	15/543,953	7/14/2017	10,375,691	8/6/2019	U.S.A.	
164	15/614,579	6/5/2017	10567939	2/18/2020	U.S.A.	3GPP RAN1
165	15/674,898	8/11/2017	10582357	3/3/2020	U.S.A.	3GPP RAN1
166	15/674,924	8/11/2017	10582539	3/3/2020	U.S.A.	3GPP RAN1
167	15/674,953	8/11/2017	10623931	4/14/2020	U.S.A.	3GPP RAN1
168	15/675,014	8/11/2017	10595344	3/17/2020	U.S.A.	3GPP RAN1
169	15/666,125	8/1/2017	10,524,254	12/31/2019	U.S.A.	
170	15/674,734	8/11/2017	10433279	10/1/2019	U.S.A.	3GPP RAN2
171	15/716,595	9/27/2017	10440691	10/8/2019	U.S.A.	3GPP RAN3
172	15/838424	12/12/2017	10313968	6/4/2019	U.S.A.	
173	15/570,650	10/30/2017	10,602,365	3/24/2020	U.S.A.	

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174	15/867,150	1/10/2018	US 10,200,933	2/5/2019	U.S.A.	IEEE 802.11
175	15/749,267	1/31/2018	10462709	10/29/2019	U.S.A.	3GPP RAN2
176	16/073,769	7/27/2018	10771195	9/8/2020	U.S.A.	3GPP RAN1
177	16/075,591	8/3/2018	10720973	7/21/2020	U.S.A.	3GPP RAN1
178	15/959466	4/23/2018	10,809,382	10/20/2020	U.S.A.	
179	15/745506	1/17/2018	10827486	11/3/2020	U.S.A.	3GPP RAN1
180	16/075,593	8/3/2018	10798723	10/6/2020	U.S.A.	3GPP RAN2
181	15/934,923	3/23/2018	10531442	1/7/2020	U.S.A.	3GPP RAN1
182	15/988,429	5/24/2018	10674530	6/2/2020	U.S.A.	3GPP RAN2
183	15/927,486	3/21/2018	10506659	12/10/2019	U.S.A.	3GPP RAN2
184	15/926,241	3/20/2018	10,721,672	7/21/2020	U.S.A.	IEEE 802.11
185	16/092,471	10/10/2018	11096091	8/17/2021	U.S.A.	3GPP RAN3
186	16/087,629	9/21/2018	10616871	4/7/2020	U.S.A.	3GPP RAN2
187	16/090,335	10/1/2018	10856201	12/1/2020	U.S.A.	3GPP RAN2
188	16/040,924	7/20/2018	10531326	1/7/2020	U.S.A.	3GPP RAN2
189	16/058,140	8/8/2018	10454643	10/22/2019	U.S.A.	3GPP RAN1
190	16/146,920	9/28/2018			U.S.A.	3GPP RAN1
191	16/125,863	9/10/2018	10524189	12/31/2019	U.S.A.	3GPP RAN2
192	16/197,487	11/21/2018	10880049	12/29/2020	U.S.A.	3GPP RAN1
193	16/227,392	12/20/2018	11019674	5/25/2021	U.S.A.	3GPP RAN2
194	16/306,204	11/30/2018	10,880,770	12/29/2020	U.S.A.	
195	16/306,200	11/30/2018	US 11,057,770	7/6/2021	U.S.A.	
196	16/306,229	11/30/2018	10,848,964	11/24/2020	U.S.A.	
197	16/489,468	8/28/2019			U.S.A.	3GPP RAN2
198	16/476,971	7/10/2019			U.S.A.	3GPP RAN2
199	16/314,442	12/30/2018			U.S.A.	3GPP RAN2
200	16/319,043	1/18/2019	10813028	10/20/2020	U.S.A.	3GPP RAN2
201	16/236,640	12/31/2018	10757587	8/25/2020	U.S.A.	3GPP RAN2
202	16/315,243	4/19/2019	10,763,950	9/1/2020	U.S.A.	
203	16/317,798	1/14/2019	10,924,176	2/16/2021	U.S.A.	
204	16/288,369	2/28/2019	10,805,186	10/13/2020	U.S.A.	
205	16/515,878	7/18/2019	11018929	5/25/2021	U.S.A.	3GPP RAN1
206	16/433,372	6/6/2019	10805918	10/13/2020	U.S.A.	3GPP RAN1
207	16/512,250	7/15/2019	11184776	11/23/2021	U.S.A.	3GPP RAN1
208	16/556,800	8/30/2019	10681673	6/9/2020	U.S.A.	3GPP RAN2
209	16/574,403	9/18/2019	11405143	8/2/2022	U.S.A.	3GPP RAN1
210	16/574,571	9/18/2019	11405144	8/2/2022	U.S.A.	3GPP RAN1
211	16/605,402	10/15/2019			U.S.A.	3GPP RAN2
212	16/729,138	12/27/2019	11-11160053	10/26/2021	U.S.A.	3GPP RAN1
213	16/541,393	8/15/2019	11497016	11/8/2022	U.S.A.	3GPP RAN1
214	16/608540	10/25/2019	10985830	4/20/2021	U.S.A.	
215	16/732,868	1/2/2020			U.S.A.	3GPP RAN1
216	16/739,545	1/10/2020	11206631	12/21/2021	U.S.A.	3GPP RAN1
217	16/745,698	1/17/2020	11076266	7/27/2021	U.S.A.	3GPP RAN1
218	16/735,625	1/6/2020			U.S.A.	3GPP RAN1
219	16/829,242	3/25/2020			U.S.A.	3GPP RAN1
220	16/758,168	4/22/2020	11259290	2/22/2022	U.S.A.	3GPP RAN1
221	17/043,429	9/29/2020			U.S.A.	3GPP RAN1
222	17/043,566	9/29/2020	11457415	9/27/2022	U.S.A.	3GPP RAN1
223	17/055,118	11/12/2020	11,445,543	9/13/2022	U.S.A.	3GPP RAN1
224	16/810,510	3/5/2020	10869174	12/15/2020	U.S.A.	3GPP RAN1
225	16/830,482	3/26/2020			U.S.A.	3GPP RAN1
226	16/839,472	4/3/2020	11-356212	6/7/2022	U.S.A.	3GPP RAN1
227	16/862,828	4/30/2020			U.S.A.	3GPP RAN1
228	17/089,208	11/4/2020			U.S.A.	3GPP RAN1
229	16/908,034	6/22/2020	11-375530	6/28/2022	U.S.A.	3GPP RAN1
230	16/861,656	4/29/2020	11076382	7/27/2021	U.S.A.	3GPP RAN2
231	17/040,396	9/22/2020	11304174	4/12/2022	U.S.A.	3GPP RAN1

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233	17/053,016	11/4/2020			U.S.A.	3GPP RAN1
234	16/969,958	8/13/2020	11497066	11/8/2022	U.S.A.	3GPP RAN2
235	16/969,935	8/13/2020	11252635	2/15/2022	U.S.A.	3GPP RAN2
236	17/051,351	10/28/2020			U.S.A.	3GPP RAN1
237	17/051,712	10/29/2020			U.S.A.	3GPP RAN1
238	16/983,917	8/3/2020	11375340	6/28/2022	U.S.A.	3GPP RAN1
239	17/055,810	11/16/2020			U.S.A.	3GPP RAN1
240	17/051,023	10/27/2020			U.S.A.	3GPP RAN2
241	17/051,062	10/27/2020	11503641	11/15/2022	U.S.A.	3GPP RAN2
242	17/051,611	10/29/2020	11,445,542	9/13/2022	U.S.A.	3GPP RAN1
243	17/274,321	3/8/2021			U.S.A.	3GPP RAN1
244	17/288,899	4/26/2021			U.S.A.	3GPP RAN2
245	17/277,714	3/18/2021			U.S.A.	3GPP RAN2
246	17/032,457	9/25/2020			U.S.A.	3GPP RAN1
247	17/125,339	12/18/2020	11,323,560	5/3/2022	U.S.A.	
248	17/438,138	9/10/2021			U.S.A.	3GPP RAN1
249	17/172,376	2/10/2021			U.S.A.	3GPP RAN2
250	17/268,579	2/15/2021			U.S.A.	3GPP RAN1
251	17/265,960	2/4/2021			U.S.A.	3GPP RAN1
252	17/282,743	4/2/2021			U.S.A.	3GPP RAN2
253	17/222,373	4/5/2021			U.S.A.	3GPP RAN1
254	17232149	4/16/2021			U.S.A.	3GPP RAN2
255	17/421,707	7/8/2021			U.S.A.	3GPP RAN1
256	17/352,233	6/18/2021			U.S.A.	3GPP RAN1
257	17/346,722	6/14/2021			U.S.A.	3GPP RAN1
258	17/420,994	7/6/2021			U.S.A.	3GPP RAN2
259	17/420,999	7/6/2021			U.S.A.	3GPP RAN2
260	17/371,796	7/9/2021			U.S.A.	3GPP RAN1
261	17/625,923	1/10/2022			U.S.A.	
262	17/382,812	7/22/2021			U.S.A.	3GPP RAN1
263	17/439,083	9/14/2021			U.S.A.	3GPP RAN2
264	17/463,978	9/1/2021			U.S.A.	
265	17/504,786	10/19/2021			U.S.A.	3GPP RAN1
266	17/613,726	11/23/2021			U.S.A.	3GPP RAN2
267	17/574,936	1/13/2022			U.S.A.	3GPP RAN1
268	17/575,073	1/13/2022			U.S.A.	3GPP RAN1
269	17/769,878	4/18/2022			U.S.A.	3GPP RAN2
270	17/763,395	3/24/2022			U.S.A.	3GPP RAN2
271	17/762,033	3/18/2022			U.S.A.	3GPP RAN2
272	17/717,008	4/8/2022			U.S.A.	3GPP RAN2
273	17/703,416	3/24/2022			U.S.A.	3GPP RAN1
274	17/714,375	4/6/2022			U.S.A.	3GPP RAN1
275	17/800399	8/17/2022			U.S.A.	
276	17/826,601	5/27/2022			U.S.A.	3GPP RAN1
277	17/799,625	8/12/2022			U.S.A.	3GPP RAN2
278	17/796,001	7/28/2022			U.S.A.	3GPP RAN2
279	17/921200	10/25/2022			U.S.A.	3GPP RAN2
280	17/917,803	10/7/2022			U.S.A.	3GPP RAN2
281	17/917,110	10/5/2022			U.S.A.	3GPP RAN2
282	17/956,755	9/29/2022			U.S.A.	3GPP RAN1
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410	PCT/KR2020/019196	12/28/2020			PCT	3GPP RAN2
411	PCT/KR2021/000254	1/8/2021			PCT	3GPP RAN2
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419	PCT/KR2022/000302	1/7/2022			PCT	3GPP RAN2
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491	1020030059682	8/27/2003	10-0505968	7/27/2005	KOREA	
492	1020030059686	8/27/2003	10-0534412	12/1/2005	KOREA	
493	1020030092317	12/17/2003	10-0550100	2/1/2006	KOREA	
494	1020030092314	12/17/2003	10-0507521	8/2/2005	KOREA	
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496	1020030096301	12/24/2003	10-0589678	6/7/2006	KOREA	
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519	1020060124536	12/8/2006	10-0973585	7/27/2010	KOREA	ETSI SCP REQ
520	1020050119884	12/8/2005	10-1424773	7/23/2014	KOREA	ETSI SCP TEC
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615	1020080077622	8/7/2008	10-0993322	11/3/2010	KOREA	
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655	1020190017798	2/15/2019	10-2251596	5/7/2021	KOREA	
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659	1020210034165	3/16/2021			KOREA	
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661	1020210175860	12/9/2021			KOREA	
662	1020220078599	6/28/2022			KOREA	
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664	1020220142886	10/31/2022			KOREA	
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764	1020060034129	4/14/2006	10-0794116	1/4/2008	KOREA	
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766	1020060117398	11/27/2006	10-0836609	6/3/2008	KOREA	
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926	1020070037857	4/18/2007	10-0894907	4/17/2009	KOREA	
927	1020070036068	4/12/2007	10-0862745	10/2/2008	KOREA	

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955	1020080101125	10/15/2008	10-0961473	5/27/2010	KOREA	
956	1020080100678	10/14/2008	10-0963972	6/8/2010	KOREA	
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1257	1020080016821	2/25/2008	10-0948188	3/10/2010	KOREA	
1258	1020070118974	11/21/2007	10-0896508	4/29/2009	KOREA	
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1260	1020080027865	3/26/2008	10-1082637	11/4/2011	KOREA	
1261	1020080035375	4/16/2008	10-1037071	5/19/2011	KOREA	
1262	1020080037186	4/22/2008	10-0986771	10/4/2010	KOREA	
1263	1020080053757	6/9/2008	10-0981233	9/2/2010	KOREA	
1264	1020080099808	10/10/2008	10-0970001	7/6/2010	KOREA	
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1267	1020080077280	8/7/2008	10-1000103	12/3/2010	KOREA	
1268	1020080063859	7/2/2008	10-1051458	7/18/2011	KOREA	
1269	1020080096550	10/1/2008	10-1006275	12/29/2010	KOREA	
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1271	1020080091940	9/19/2008	10-0976736	8/12/2010	KOREA	
1272	1020080132154	12/23/2008	10-1047500	7/1/2011	KOREA	
1273	1020090054499	6/18/2009	10-1564733	10/26/2015	KOREA	
1274	1020080087447	9/4/2008	10-0964391	6/9/2010	KOREA	
1275	1020080079452	8/13/2008	10-0994889	11/10/2010	KOREA	

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1279	1020080108444	11/3/2008	10-0985963	9/30/2010	KOREA	
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1285	1020090020847	3/11/2009	10-1034673	5/4/2011	KOREA	
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1290	1020070078971	8/7/2007	10-1432652	8/14/2014	KOREA	
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1292	1020070084528	8/22/2007	10-0957237	5/3/2010	KOREA	
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1296	1020210083381	6/25/2021			KOREA	
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1298	1020130133360	11/5/2013	10-1537532	7/13/2015	KOREA	IEEE 802.11 TGah
1299	1020140143615	10/22/2014	10-1865373	5/31/2018	KOREA	IEEE 802.11
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1303	1020210048985	4/15/2021	10-2448701	9/26/2022	KOREA	IEEE 802.11
1304	1020060095149	9/28/2006	10-0702406	3/27/2007	KOREA	IEEE 802.11
1305	1020050054863	6/24/2005	10-0704676	4/2/2007	KOREA	IEEE 802.11
1306	1020050120867	12/9/2005	10-0705504	4/3/2007	KOREA	IEEE 802.11
1307	1020030064391	9/17/2003	10-0625234	9/11/2006	KOREA	IEEE 802.11
1308	1020030062191	9/5/2003	10-0612653	8/8/2006	KOREA	
1309	1020040054556	7/13/2004	10-0684309	2/12/2007	KOREA	
1310	1020040066304	8/23/2004	10-0612651	8/8/2006	KOREA	IEEE 802.11
1311	1020030092065	12/16/2003	10-0611622	8/4/2006	KOREA	
1312	1020030090760	12/12/2003	10-0625237	9/11/2006	KOREA	
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1314	1020030092319	12/17/2003	10-0610269	8/1/2006	KOREA	
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1332	1020050120869	12/9/2005	10-0726173	6/1/2007	KOREA	
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1339	1020100133753	12/23/2010	10-1272576	6/3/2013	KOREA	
1340	1020100060100	6/24/2010	10-1682462	11/29/2016	KOREA	
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1342	1020110024529	3/18/2011	10-1787727	10/12/2017	KOREA	
1343	1020110030383	4/1/2011	10-1342590	12/11/2013	KOREA	
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1353	1020120008272	1/27/2012	10-1490549	1/30/2015	KOREA	
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1359	1020120142082	12/7/2012	10-1486512	1/20/2015	KOREA	
1360	1020130013006	2/5/2013	10-1967747	4/4/2019	KOREA	
1361	1020130064053	6/4/2013	10-1712343	2/27/2017	KOREA	
1362	1020140027907	3/10/2014	10-1799535	11/14/2017	KOREA	
1363	1020140028199	3/11/2014	10-1737372	5/12/2017	KOREA	
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1373	1020140115487	9/1/2014	10-1583316	12/31/2015	KOREA	
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1384	1020160103413	8/16/2016			KOREA	
1385	1020160164402	12/5/2016	10-2068819	1/15/2020	KOREA	
1386	1020160170275	12/14/2016	10-2222006	2/24/2021	KOREA	
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1390	1020180035031	3/27/2018	10-2022606	9/10/2019	KOREA	
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1395	1020030033692	5/27/2003	10-0930712	12/1/2009	KOREA	
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1407	1020120117351	10/22/2012	10-1974640	4/25/2019	KOREA	
1408	1020180144781	11/21/2018			KOREA	
1409	1020190110100	9/5/2019			KOREA	
1410	1020190120505	9/30/2019			KOREA	3GPP RAN3
1411	1020190113371	9/16/2019			KOREA	
1412	1020190120521	9/30/2019			KOREA	
1413	1020200138995	10/26/2020			KOREA	
1414	1020200138161	10/23/2020			KOREA	3GPP RAN3
1415	1020200134974	10/19/2020	10-2362027	2/8/2022	KOREA	
1416	1020210019186	2/10/2021			KOREA	
1417	1020220018365	2/11/2022			KOREA	
1418	1020220014563	2/4/2022			KOREA	
1419	1020220013658	1/28/2022			KOREA	
1420	1020220116114	9/15/2022			KOREA	
1421	1020030090741	12/12/2003	10-0964388	6/9/2010	KOREA	
1422	1020080011407	2/4/2008	10-1546406	8/17/2015	KOREA	
1423	1020100065533	7/7/2010	10-1651518	8/22/2016	KOREA	
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1426	1020110024929	3/21/2011	10-1328005	11/5/2013	KOREA	
1427	1020110022425	3/14/2011	10-1364769	2/11/2014	KOREA	
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1437	1020190116561	9/23/2019			KOREA	
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1439	1020040077474	9/24/2004	10-1079997	10/28/2011	KOREA	
1440	1020080130169	12/19/2008	10-1487559	1/22/2015	KOREA	O-RAN Alliance, 3GPP(RAN3)
1441	1020100023944	3/17/2010	10-1242047	3/5/2013	KOREA	
1442	1020030084440	11/26/2003	10-0600604	7/6/2006	KOREA	O-RAN Alliance
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1447	1020070119641	11/22/2007	10-0936531	1/5/2010	KOREA	
1448	1020080099750	10/10/2008	10-1006318	12/29/2010	KOREA	

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1463	1020170170646	12/12/2017	10-2095464	3/25/2020	KOREA	
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1466	1020170159420	11/27/2017	10-2407217	6/3/2022	KOREA	
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1474	1020190094929	8/5/2019			KOREA	
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1481	1020200018307	2/14/2020			KOREA	
1482	1020200063691	5/27/2020			KOREA	3GPP RAN3
1483	1020200057633	5/14/2020			KOREA	3GPP RAN3
1484	1020200098806	8/6/2020			KOREA	
1485	1020200134406	10/16/2020	10-2389909	4/19/2022	KOREA	3GPP RAN3
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1488	1020210130402	9/30/2021			KOREA	
1489	1020210120649	9/9/2021			KOREA	
1490	1020210130410	9/30/2021			KOREA	
1491	1020210117270	9/2/2021			KOREA	
1492	1020210132706	10/6/2021			KOREA	
1493	1020220010178	1/24/2022			KOREA	
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1496	1020220058188	5/12/2022			KOREA	
1497	1020220026211	2/28/2022			KOREA	
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1504	1020070037548	4/17/2007	10-0848454	7/18/2008	KOREA	
1505	1020060100721	10/17/2006	10-0802096	1/31/2008	KOREA	
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1512	1020080100166	10/13/2008	10-1005387	12/24/2010	KOREA	
1513	1020070130343	12/13/2007	10-0995903	11/16/2010	KOREA	
1514	1020090076241	8/18/2009	10-1094006	12/7/2011	KOREA	
1515	1020050121364	12/10/2005	10-0668676	1/8/2007	KOREA	
1516	1020050119883	12/8/2005	10-1052341	7/21/2011	KOREA	
1517	1020100134924	12/24/2010	10-1318364	10/8/2013	KOREA	
1518	1020100114024	11/16/2010	10-1269216	5/23/2013	KOREA	
1519	1020110034851	4/14/2011	10-1394606	5/7/2014	KOREA	
1520	1020110074651	7/27/2011	10-1410998	6/17/2014	KOREA	
1521	1020110076583	8/1/2011	10-1430242	8/7/2014	KOREA	
1522	1020120048810	5/8/2012	10-1460328	11/4/2014	KOREA	
1523	1020120053878	5/21/2012	10-1515594	4/21/2015	KOREA	
1524	1020120076297	7/12/2012	10-1472575	12/8/2014	KOREA	
1525	1020120082578	7/27/2012	10-1502149	3/6/2015	KOREA	3GPP
1526	1020120082577	7/27/2012	10-1537100	7/9/2015	KOREA	
1527	1020120117522	10/22/2012	10-2087191	3/4/2020	KOREA	
1528	1020120123227	11/1/2012	10-1460330	11/4/2014	KOREA	
1529	1020120123226	11/1/2012	10-1410995	6/17/2014	KOREA	
1530	1020120143779	12/11/2012	10-1502139	3/6/2015	KOREA	
1531	1020120151332	12/21/2012	10-1502141	3/6/2015	KOREA	
1532	1020140005106	1/15/2014	10-2118583	5/28/2020	KOREA	3GPP
1533	1020140148077	10/29/2014	10-1651553	8/22/2016	KOREA	3GPP
1534	1020140188451	12/24/2014	10-1877512	7/5/2018	KOREA	
1535	1020150007498	1/15/2015	10-2190122	12/7/2020	KOREA	
1536	1020170008090	1/17/2017	10-2104634	4/20/2020	KOREA	
1537	1020150127898	9/9/2015	10-1960951	3/15/2019	KOREA	
1538	1020170055128	4/28/2017	10-2172469	10/26/2020	KOREA	
1539	1020170165824	12/5/2017	10-2177054	11/4/2020	KOREA	
1540	1020190057923	5/17/2019	10-2126519	6/18/2020	KOREA	
1541	1020190143911	11/12/2019	10-2375227	3/11/2022	KOREA	
1542	1020190067190	6/7/2019	10-2123632	6/10/2020	KOREA	
1543	1020190112358	9/10/2019	10-2352781	1/13/2022	KOREA	
1544	1020190132955	10/24/2019			KOREA	
1545	1020190170483	12/19/2019			KOREA	
1546	1020200141525	10/28/2020	10-2403440	5/25/2022	KOREA	
1547	1020200134964	10/19/2020			KOREA	
1548	1020200175147	12/15/2020			KOREA	
1549	1020210007358	1/19/2021	10-2414691	6/24/2022	KOREA	
1550	1020210107173	8/13/2021			KOREA	
1551	1020210142193	10/22/2021			KOREA	
1552	1020220013543	1/28/2022			KOREA	
1553	1020210189188	12/28/2021			KOREA	
1554	1020220129792	10/11/2022			KOREA	
1555	1020030039535	6/18/2003	10-0970221	7/7/2010	KOREA	
1556	1020030041952	6/26/2003	10-0950763	3/25/2010	KOREA	
1557	1020040056550	7/20/2004	10-1003893	12/17/2010	KOREA	
1558	1020050088614	9/23/2005	10-0948186	3/10/2010	KOREA	
1559	1020050064800	7/18/2005	10-1076864	10/19/2011	KOREA	3GPP RAN1
1560	1020050085648	9/14/2005	10-1090447	11/30/2011	KOREA	
1561	1020060057552	6/26/2006	10-1229122	1/28/2013	KOREA	
1562	1020060058844	6/28/2006	10-1260520	4/26/2013	KOREA	
1563	1020060080714	8/24/2006	10-0831553	5/15/2008	KOREA	
1564	1020070090477	9/6/2007	10-1337686	11/29/2013	KOREA	3GPP RAN1

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1565	1020070089009	9/3/2007	10-1355363	1/17/2014	KOREA	
1566	1020070096890	9/21/2007	10-1348033	12/27/2013	KOREA	
1567	1020080018584	2/28/2008	10-0966053	6/17/2010	KOREA	
1568	1020080091580	9/18/2008	10-1475082	12/15/2014	KOREA	3GPP RAN1
1569	1020090083093	9/3/2009	10-1117869	2/10/2012	KOREA	3GPP RAN1
1570	1020060009994	2/2/2006	10-0659234	12/12/2006	KOREA	
1571	1020080002490	1/9/2008	10-0951640	3/31/2010	KOREA	
1572	1020080082339	8/22/2008	10-1000397	12/6/2010	KOREA	3GPP RAN2
1573	1020080095548	9/29/2008	10-1003171	12/15/2010	KOREA	3GPP RAN1
1574	1020090032400	4/14/2009	10-1069402	9/26/2011	KOREA	3GPP RAN2
1575	1020090116141	11/27/2009	10-1624328	5/19/2016	KOREA	
1576	1020100045433	5/14/2010	10-1690787	12/22/2016	KOREA	
1577	1020100079362	8/17/2010	10-1687024	12/9/2016	KOREA	3GPP RAN2
1578	1020100080249	8/19/2010	10-1732737	4/26/2017	KOREA	3GPP RAN2
1579	1020100132488	12/22/2010	10-1752902	6/26/2017	KOREA	
1580	1020100132487	12/22/2010	10-1472100	12/5/2014	KOREA	3GPP RAN1
1581	1020100131415	12/21/2010	10-1338487	12/2/2013	KOREA	3GPP RAN2
1582	1020110012886	2/14/2011	10-1338488	12/2/2013	KOREA	3GPP RAN2
1583	1020110012417	2/11/2011	10-1225195	1/16/2013	KOREA	3GPP RAN1
1584	1020110034852	4/14/2011	10-1430243	8/7/2014	KOREA	3GPP RAN2
1585	1020110057341	6/14/2011	10-1602975	3/7/2016	KOREA	3GPP RAN1
1586	1020110076581	8/1/2011	10-1311526	9/16/2013	KOREA	3GPP RAN2
1587	1020110078326	8/5/2011	10-1598598	2/23/2016	KOREA	
1588	1020110114222	11/4/2011	10-1516355	4/23/2015	KOREA	3GPP RAN2
1589	1020110130549	12/7/2011	10-1284828	7/4/2013	KOREA	3GPP RAN1
1590	1020110127193	11/30/2011	10-1262340	5/2/2013	KOREA	3GPP RAN2
1591	1020110127703	12/1/2011	10-1900917	9/14/2018	KOREA	3GPP RAN1
1592	1020110134921	12/14/2011	10-1515593	4/21/2015	KOREA	3GPP RAN1
1593	1020110141762	12/23/2011	10-1487482	1/22/2015	KOREA	3GPP RAN1
1594	1020110142730	12/26/2011	10-1444435	9/18/2014	KOREA	
1595	1020120022465	3/5/2012	10-1537732	7/13/2015	KOREA	3GPP RAN1
1596	1020120036849	4/9/2012	10-1487484	1/22/2015	KOREA	
1597	1020120048812	5/8/2012	10-1445840	9/23/2014	KOREA	
1598	1020120048809	5/8/2012	10-1460329	11/4/2014	KOREA	3GPP RAN1
1599	1020120065184	6/18/2012	10-1502136	3/6/2015	KOREA	3GPP RAN1
1600	1020120075767	7/11/2012	10-1445839	9/23/2014	KOREA	3GPP RAN1
1601	1020120051042	5/14/2012	10-1909276	10/11/2018	KOREA	
1602	1020120081923	7/26/2012	10-1451416	10/8/2014	KOREA	3GPP RAN2
1603	1020120077913	7/17/2012	10-1451418	10/8/2014	KOREA	3GPP RAN1
1604	1020120058463	5/31/2012	10-1500678	3/3/2015	KOREA	3GPP RAN1
1605	1020120050850	5/14/2012	10-1557118	9/24/2015	KOREA	3GPP RAN1
1606	1020120063354	6/13/2012	10-1445838	9/23/2014	KOREA	3GPP RAN2
1607	1020120072779	7/4/2012	10-1954397	2/26/2019	KOREA	3GPP RAN2
1608	1020120050853	5/14/2012	10-1448279	9/30/2014	KOREA	
1609	1020120065783	6/19/2012	10-1894588	8/28/2018	KOREA	3GPP RAN1
1610	1020120099240	9/7/2012	10-1500639	3/3/2015	KOREA	
1611	1020120081383	7/25/2012	10-1451420	10/8/2014	KOREA	
1612	1020120074687	7/9/2012	10-1487487	1/22/2015	KOREA	
1613	1020120085722	8/6/2012	10-1537735	7/13/2015	KOREA	3GPP RAN1
1614	1020120100067	9/10/2012	10-1456700	10/24/2014	KOREA	3GPP RAN1
1615	1020120106695	9/25/2012	10-1571881	11/19/2015	KOREA	3GPP RAN2
1616	1020120100066	9/10/2012	10-1472101	12/5/2014	KOREA	3GPP RAN1
1617	1020120143781	12/11/2012	10-1460331	11/4/2014	KOREA	
1618	1020120103209	9/18/2012	10-1999663	7/8/2019	KOREA	3GPP RAN2
1619	1020120103523	9/18/2012	10-1619105	5/2/2016	KOREA	3GPP RAN1
1620	1020100086497	10/18/2012	10-1426578	7/29/2014	KOREA	
1621	1020120148786	12/18/2012	10-1410994	6/17/2014	KOREA	3GPP RAN1
1622	1020120147590	12/17/2012	10-1502140	3/6/2015	KOREA	

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1623	1020120141262	12/6/2012	10-1525048	5/27/2015	KOREA	3GPP RAN2
1624	1020130135797	11/8/2012	10-1515602	4/21/2015	KOREA	3GPP RAN2
1625	1020130093323	8/6/2013	10-2129901	6/29/2020	KOREA	3GPP RAN2
1626	1020140001463	1/6/2014	10-2106412	4/24/2020	KOREA	3GPP RAN1
1627	1020130089752	7/29/2013	10-1619400	5/2/2016	KOREA	
1628	1020130153348	12/10/2013	10-2191368	12/9/2020	KOREA	3GPP RAN2
1629	1020130168851	12/31/2013	10-2106628	4/22/2020	KOREA	3GPP RAN1
1630	1020130129015	10/29/2013	10-1568310	11/5/2015	KOREA	
1631	1020130132159	11/1/2013	10-1886451	8/1/2018	KOREA	3GPP RAN1
1632	1020130165604	12/27/2013	10-2086086	3/2/2020	KOREA	3GPP RAN2
1633	1020140000169	1/2/2014	10-1504183	3/13/2015	KOREA	
1634	1020130148751	12/2/2013	10-1602998	3/7/2016	KOREA	
1635	1020130149687	12/4/2013	10-1625552	5/24/2016	KOREA	3GPP RAN1
1636	1020130167383	12/30/2013	10-1732157	4/25/2017	KOREA	3GPP RAN2
1637	1020130155297	12/13/2013	10-1566943	11/2/2015	KOREA	3GPP RAN2
1638	1020130161875	12/23/2013	10-1602999	3/7/2016	KOREA	3GPP RAN2
1639	1020140008556	1/23/2014	10-1648251	8/8/2016	KOREA	3GPP RAN1
1640	1020140012252	2/3/2014	10-1877093	7/4/2018	KOREA	3GPP RAN1
1641	1020140015508	2/11/2014	10-1656248	9/5/2016	KOREA	
1642	1020140069633	6/9/2014	10-2186325	11/27/2020	KOREA	
1643	1020140017610	2/17/2014	10-1655513	9/1/2016	KOREA	
1644	1020140043696	4/11/2014	10-1930114	12/11/2018	KOREA	3GPP RAN1
1645	1020140119009	9/5/2014	10-1805584	11/30/2017	KOREA	
1646	1020140088926	7/15/2014	10-1875252	6/29/2018	KOREA	3GPP RAN1
1647	1020140142829	10/21/2014	10-2311061	10/1/2021	KOREA	
1648	1020140127173	9/23/2014	10-1862839	5/24/2018	KOREA	3GPP RAN2
1649	1020140180330	12/15/2014	10-1765375	7/31/2017	KOREA	3GPP RAN2
1650	1020150009256	1/20/2015	10-2346585	12/29/2021	KOREA	3GPP RAN1
1651	1020140187262	12/23/2014	10-1640681	7/12/2016	KOREA	3GPP RAN1
1652	1020150000030	1/2/2015	10-1632567	6/16/2016	KOREA	3GPP RAN2
1653	1020150023625	2/16/2015	10-1672120	10/27/2016	KOREA	3GPP RAN2
1654	1020150015921	2/2/2015	10-2129957	6/29/2020	KOREA	
1655	1020150030263	3/4/2015	10-1804620	11/28/2017	KOREA	3GPP RAN2
1656	1020150128857	9/11/2015	10-1737376	5/12/2017	KOREA	
1657	1020150100049	7/14/2015	10-1908066	10/8/2018	KOREA	
1658	1020150107567	7/29/2015	10-1954226	2/26/2019	KOREA	3GPP RAN2
1659	1020150107568	7/29/2015	10-1987429	6/3/2019	KOREA	3GPP RAN2
1660	1020150105193	7/24/2015	10-1920111	11/13/2018	KOREA	3GPP RAN1
1661	1020150114273	8/13/2015	10-1853527	4/24/2018	KOREA	3GPP RAN1
1662	1020150089925	6/24/2015	10-1617589	4/26/2016	KOREA	3GPP RAN1
1663	1020150098130	7/10/2015	10-1901210	9/17/2018	KOREA	3GPP RAN2
1664	1020150101150	7/16/2015	10-1945915	1/30/2019	KOREA	3GPP RAN1
1665	1020150136064	9/25/2015	10-1985991	5/29/2019	KOREA	3GPP RAN1
1666	1020150184878	12/23/2015			KOREA	3GPP RAN1
1667	1020150132349	9/18/2015	10-1655699	9/1/2016	KOREA	3GPP RAN1
1668	1020150170133	12/1/2015	10-1758706	7/11/2017	KOREA	3GPP RAN1
1669	1020150155504	11/6/2015	10-1905941	10/1/2018	KOREA	3GPP RAN1
1670	1020150145111	10/19/2015	10-1611309	4/5/2016	KOREA	3GPP RAN1
1671	1020160015297	2/5/2016	10-1757906	7/7/2017	KOREA	3GPP RAN2
1672	1020160058751	5/13/2016	10-1915840	10/31/2018	KOREA	3GPP RAN1
1673	1020160166930	12/8/2016	10-1945784	1/30/2019	KOREA	
1674	1020160027603	3/8/2016	10-1868220	6/8/2018	KOREA	
1675	1020160027589	3/8/2016	10-1884978	7/27/2018	KOREA	3GPP RAN1
1676	1020160037352	3/29/2016	10-1870022	6/15/2018	KOREA	
1677	1020160050370	4/25/2016	10-1805160	11/29/2017	KOREA	3GPP RAN3
1678	1020160063010	5/23/2016	10-2055921	12/9/2019	KOREA	3GPP RAN1
1679	1020160077571	6/21/2016	10-1922250	11/20/2018	KOREA	3GPP RAN1
1680	1020160071849	6/9/2016	10-1915842	10/31/2018	KOREA	3GPP RAN2

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1681	1020160073112	6/13/2016	10-2002203	7/15/2019	KOREA	3GPP RAN1
1682	1020160098419	8/2/2016	10-2085901	3/2/2020	KOREA	3GPP RAN1
1683	1020160102774	8/12/2016	10-1934160	12/24/2018	KOREA	3GPP RAN1
1684	1020160087324	7/11/2016	10-2379542	3/23/2022	KOREA	3GPP RAN1
1685	1020160087313	7/11/2016	10-2299810	9/2/2021	KOREA	3GPP RAN1
1686	1020160076916	6/20/2016			KOREA	3GPP RAN1
1687	1020170174574	12/18/2017	10-2106105	4/23/2020	KOREA	3GPP RAN1
1688	1020160170046	12/14/2016			KOREA	3GPP RAN1
1689	1020170003757	1/10/2017			KOREA	3GPP RAN2
1690	1020160119736	9/20/2016	10-1954495	2/26/2019	KOREA	3GPP RAN2
1691	1020160176062	12/21/2016	10-1877543	7/5/2018	KOREA	3GPP RAN2
1692	1020160173966	12/19/2016	10-1870913	6/19/2018	KOREA	3GPP RAN2
1693	1020170023322	2/22/2017	10-2237430	4/1/2021	KOREA	3GPP RAN2
1694	1020160167023	12/8/2016	10-1882102	7/19/2018	KOREA	3GPP RAN2
1695	1020160175028	12/20/2016	10-1984594	5/27/2019	KOREA	3GPP RAN1
1696	1020170023742	2/22/2017	10-2127759	6/23/2020	KOREA	3GPP RAN1
1697	1020170036293	3/22/2017	10-1954515	2/26/2019	KOREA	3GPP RAN1
1698	1020170029486	3/8/2017	10-2038500	10/24/2019	KOREA	3GPP RAN2
1699	1020170029374	3/8/2017	10-2078189	2/11/2020	KOREA	3GPP RAN1
1700	1020170062553	5/19/2017	10-1909265	10/11/2018	KOREA	3GPP RAN1
1701	1020170079590	6/23/2017	10-1883995	7/25/2018	KOREA	3GPP RAN1
1702	1020170062372	5/19/2017	10-1952776	2/21/2019	KOREA	3GPP RAN1
1703	1020170062333	5/19/2017	10-1952772	2/21/2019	KOREA	3GPP RAN1
1704	1020170065822	5/29/2017	10-1945107	1/28/2019	KOREA	3GPP SA1
1705	1020170065832	5/29/2017	10-2042032	11/1/2019	KOREA	3GPP RAN1
1706	1020170071886	6/8/2017	10-1971780	4/17/2019	KOREA	3GPP RAN1
1707	1020170099395	8/7/2017	10-1971786	4/17/2019	KOREA	3GPP RAN1
1708	1020170073684	6/13/2017	10-1895170	8/29/2018	KOREA	3GPP RAN1
1709	1020170080599	6/26/2017	10-1979500	5/10/2019	KOREA	
1710	1020170080610	6/26/2017	10-1979501	5/10/2019	KOREA	3GPP RAN1
1711	1020170081319	6/27/2017	10-1979502	5/10/2019	KOREA	3GPP RAN2
1712	1020170081324	6/27/2017	10-1986009	5/29/2019	KOREA	3GPP RAN1
1713	1020170078883	6/22/2017	10-1814341	12/26/2017	KOREA	
1714	1020170111566	9/1/2017			KOREA	3GPP RAN1
1715	1020170091825	7/20/2017	10-1960177	3/13/2019	KOREA	3GPP RAN1
1716	1020170082284	6/29/2017	10-2174932	10/30/2020	KOREA	
1717	1020170144138	10/31/2017	10-2180844	11/13/2020	KOREA	3GPP RAN1
1718	1020180018822	2/14/2018	10-2178884	11/9/2020	KOREA	3GPP SA1
1719	1020170147456	11/7/2017	10-2023604	9/16/2019	KOREA	3GPP RAN2
1720	1020170144578	11/1/2017	10-1988990	6/4/2019	KOREA	
1721	1020170116319	9/12/2017	10-2022846	9/11/2019	KOREA	
1722	1020170137582	10/23/2017	10-2077780	2/10/2020	KOREA	3GPP RAN1
1723	1020170177813	12/22/2017	10-2108011	4/29/2020	KOREA	3GPP RAN1
1724	1020180001016	1/4/2018	10-2077784	2/10/2020	KOREA	
1725	1020180009156	1/25/2018	10-2129977	6/29/2020	KOREA	
1726	1020180056942	5/18/2018	10-2084004	2/26/2020	KOREA	3GPP RAN2
1727	1020180079023	7/6/2018			KOREA	3GPP RAN1
1728	1020180017186	2/12/2018	10-2319320	10/25/2021	KOREA	3GPP RAN1
1729	1020180024393	2/28/2018	10-2170530	10/21/2020	KOREA	
1730	1020180020339	2/21/2018	10-2090773	3/12/2020	KOREA	
1731	1020180034955	3/27/2018	10-2359496	2/3/2022	KOREA	3GPP RAN1
1732	1020180043161	4/13/2018	10-2280004	7/15/2021	KOREA	3GPP RAN2
1733	1020180065800	6/8/2018	10-2243543	4/16/2021	KOREA	3GPP RAN1
1734	1020180068747	6/15/2018	10-2305472	9/16/2021	KOREA	3GPP RAN1
1735	1020180043168	4/13/2018	10-1878125	7/6/2018	KOREA	3GPP RAN2
1736	1020180074835	6/28/2018	10-2192177	12/10/2020	KOREA	3GPP RAN2
1737	1020180070989	6/20/2018	10-1975706	4/29/2019	KOREA	
1738	1020180124177	10/18/2018	10-2164038	10/5/2020	KOREA	

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1739	1020180119574	10/8/2018			KOREA	3GPP
1740	1020180107317	9/7/2018	10-2161473	9/24/2020	KOREA	3GPP RAN1
1741	1020180119576	10/8/2018			KOREA	
1742	1020180103458	8/31/2018			KOREA	
1743	1020180096477	8/20/2018	10-2128950	6/25/2020	KOREA	3GPP RAN1
1744	1020180145158	11/22/2018	10-2094774	3/24/2020	KOREA	3GPP RAN1
1745	1020180143960	11/20/2018	10-2206543	1/18/2021	KOREA	
1746	1020180157849	12/10/2018	10-2392325	4/26/2022	KOREA	3GPP RAN1
1747	1020190009663	1/25/2019	10-2322381	11/1/2021	KOREA	3GPP RAN2
1748	1020190009666	1/25/2019	10-2322380	11/1/2021	KOREA	3GPP RAN1
1749	1020190035806	3/28/2019			KOREA	
1750	1020190060980	5/24/2019			KOREA	3GPP RAN1
1751	1020190015479	2/11/2019	10-2320416	10/27/2021	KOREA	3GPP RAN1
1752	1020190032410	3/21/2019	10-2360187	2/3/2022	KOREA	
1753	1020190039653	4/4/2019	10-2460799	10/26/2022	KOREA	3GPP RAN1
1754	1020190050231	4/30/2019	10-2392079	4/25/2022	KOREA	3GPP RAN1
1755	1020190035586	3/28/2019	10-2298009	8/30/2021	KOREA	3GPP RAN1
1756	1020190060113	5/22/2019	10-2360185	2/3/2022	KOREA	3GPP RAN2
1757	1020190054264	5/9/2019	10-2332313	11/24/2021	KOREA	3GPP RAN1
1758	1020190055567	5/13/2019	10-2326031	11/8/2021	KOREA	3GPP RAN2
1759	1020190083662	7/11/2019	10-2372989	3/7/2022	KOREA	3GPP RAN2
1760	1020190071954	6/18/2019	10-2223030	2/25/2021	KOREA	3GPP RAN2
1761	1020190091435	7/29/2019	10-2338799	12/8/2021	KOREA	3GPP RAN1
1762	1020190082962	7/10/2019	10-2338792	12/8/2021	KOREA	3GPP RAN1
1763	1020190082956	7/10/2019	10-2434619	8/17/2022	KOREA	3GPP RAN1
1764	1020190107421	8/30/2019			KOREA	3GPP RAN2
1765	1020200007853	1/21/2020			KOREA	3GPP RAN2
1766	1020190142735	11/8/2019			KOREA	3GPP RAN2
1767	1020190101657	8/20/2019			KOREA	3GPP RAN2
1768	1020190120503	9/30/2019			KOREA	3GPP RAN2
1769	1020190083074	7/10/2019	10-2297101	8/27/2021	KOREA	
1770	1020190088142	7/22/2019	10-2320609	10/27/2021	KOREA	
1771	1020190103888	8/23/2019	10-2265329	6/9/2021	KOREA	3GPP RAN2
1772	1020190096457	8/8/2019	10-2408453	6/8/2022	KOREA	3GPP RAN2
1773	1020190095644	8/6/2019			KOREA	3GPP RAN2
1774	1020190099108	8/13/2019			KOREA	
1775	1020190098670	8/13/2019	10-2391597	4/25/2022	KOREA	
1776	1020190108134	9/2/2019	10-2385929	4/7/2022	KOREA	
1777	1020190169847	12/18/2019			KOREA	3GPP RAN2
1778	1020190137235	10/31/2019			KOREA	3GPP RAN1
1779	1020190114503	9/18/2019	10-2385544	4/7/2022	KOREA	3GPP RAN1
1780	1020200026080	3/2/2020			KOREA	3GPP RAN1
1781	1020190118534	9/26/2019			KOREA	3GPP RAN1
1782	1020190133057	10/24/2019	10-2296467	8/26/2021	KOREA	3GPP RAN2
1783	1020190174887	12/26/2019			KOREA	
1784	1020190176309	12/27/2019			KOREA	3GPP RAN2
1785	1020190164753	12/11/2019			KOREA	3GPP RAN2
1786	1020190167455	12/16/2019	10-2331189	11/22/2021	KOREA	3GPP RAN2
1787	1020190161978	12/6/2019			KOREA	3GPP RAN1
1788	1020200001549	1/6/2020			KOREA	3GPP RAN2
1789	1020200020091	2/19/2020	10-2412491	6/20/2022	KOREA	3GPP RAN2
1790	1020200021590	2/21/2020			KOREA	
1791	1020200028373	3/6/2020	10-2195867	12/21/2020	KOREA	3GPP SA1
1792	1020200031492	3/13/2020	10-2467308	11/10/2022	KOREA	3GPP RAN2
1793	1020200035406	3/24/2020			KOREA	
1794	1020200026718	3/3/2020			KOREA	3GPP RAN1
1795	1020200029266	3/9/2020			KOREA	3GPP RAN1
1796	1020200052430	4/29/2020	10-2330868	11/19/2021	KOREA	

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1797	1020200132993	10/14/2020			KOREA	3GPP RAN2
1798	1020200042132	4/7/2020			KOREA	3GPP RAN2
1799	1020200049232	4/23/2020			KOREA	3GPP RAN1
1800	1020200116356	9/10/2020			KOREA	3GPP RAN2
1801	1020200063694	5/27/2020	10-2375066	3/11/2022	KOREA	3GPP RAN2
1802	1020200044639	4/13/2020			KOREA	3GPP RAN1
1803	1020200107569	8/26/2020			KOREA	3GPP RAN1
1804	1020200062303	5/25/2020	10-2360173	2/3/2022	KOREA	3GPP RAN1
1805	1020200132850	10/14/2020			KOREA	3GPP RAN1
1806	1020200135264	10/19/2020			KOREA	
1807	1020200094066	7/28/2020	10-2434660	8/17/2022	KOREA	3GPP RAN1
1808	1020200082370	7/3/2020			KOREA	3GPP RAN1
1809	1020200092541	7/24/2020			KOREA	3GPP RAN1
1810	1020200102012	8/13/2020			KOREA	3GPP RAN2
1811	1020200109791	8/31/2020	10-2343883	12/22/2021	KOREA	3GPP RAN2
1812	1020200114350	9/8/2020			KOREA	3GPP RAN1
1813	1020200119456	9/16/2020			KOREA	3GPP RAN1
1814	1020200127914	10/5/2020			KOREA	3GPP RAN1
1815	1020200121500	9/21/2020			KOREA	3GPP RAN1
1816	1020200121740	9/21/2020			KOREA	
1817	1020200134506	10/16/2020			KOREA	3GPP RAN1
1818	1020200182838	12/24/2020			KOREA	3GPP RAN1
1819	1020210014051	2/1/2021			KOREA	3GPP RAN2
1820	1020210001739	1/7/2021			KOREA	3GPP RAN2
1821	1020210001205	1/6/2021			KOREA	3GPP RAN2
1822	1020210012821	1/29/2021			KOREA	
1823	1020210038322	3/24/2021			KOREA	3GPP RAN1
1824	1020210045387	4/7/2021	10-2468049	11/14/2022	KOREA	3GPP RAN2
1825	1020210035014	3/18/2021			KOREA	3GPP RAN2
1826	1020210037692	3/24/2021			KOREA	
1827	1020210040116	3/29/2021			KOREA	3GPP RAN2
1828	1020210084649	6/29/2021			KOREA	3GPP RAN1
1829	1020210130401	9/30/2021			KOREA	3GPP RAN1
1830	1020210130405	9/30/2021			KOREA	3GPP RAN1
1831	1020210059786	5/10/2021			KOREA	3GPP
1832	1020210065898	5/24/2021			KOREA	3GPP RAN2
1833	1020210067677	5/26/2021			KOREA	3GPP RAN1
1834	1020210083600	6/28/2021			KOREA	3GPP RAN1
1835	1020210082351	6/24/2021			KOREA	
1836	1020210091203	7/12/2021			KOREA	3GPP RAN2
1837	1020210153124	11/9/2021			KOREA	3GPP RAN2
1838	1020210152637	11/8/2021			KOREA	
1839	1020210089528	7/8/2021			KOREA	3GPP WG RAN1
1840	1020210094216	7/19/2021			KOREA	
1841	1020210095102	7/20/2021			KOREA	3GPP RAN2
1842	1020210108070	8/17/2021			KOREA	3GPP RAN1
1843	1020210098853	7/27/2021			KOREA	3GPP RAN1
1844	1020210098851	7/27/2021			KOREA	3GPP RAN2
1845	1020220013644	1/28/2022			KOREA	3GPP RAN2
1846	1020210109982	8/20/2021			KOREA	3GPP RAN2
1847	1020210136320	10/14/2021			KOREA	3GPP RAN2
1848	1020220013742	1/28/2022			KOREA	3GPP RAN2 SA2
1849	1020210184815	12/22/2021			KOREA	3GPP RAN1
1850	1020220001665	1/5/2022			KOREA	
1851	1020220021138	2/18/2022			KOREA	
1852	1020220009222	1/21/2022			KOREA	
1853	1020220001995	1/6/2022			KOREA	
1854	1020220014108	2/3/2022			KOREA	

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1855	1020220032195	3/15/2022			KOREA	
1856	1020220031347	3/14/2022			KOREA	
1857	1020220031952	3/15/2022			KOREA	
1858	1020220033217	3/17/2022			KOREA	
1859	1020220034597	3/21/2022			KOREA	
1860	1020220034041	3/18/2022			KOREA	
1861	1020220036325	3/23/2022			KOREA	
1862	1020220036326	3/23/2022			KOREA	
1863	1020220046568	4/14/2022			KOREA	
1864	1020220051082	4/25/2022			KOREA	
1865	1020220051638	4/26/2022			KOREA	
1866	1020220053088	4/28/2022			KOREA	
1867	1020220053098	4/28/2022			KOREA	
1868	1020220053821	4/29/2022			KOREA	
1869	1020220055325	5/4/2022			KOREA	
1870	1020220056834	5/9/2022			KOREA	
1871	1020220057107	5/10/2022			KOREA	
1872	1020220100737	8/11/2022			KOREA	
1873	1020220063648	5/24/2022			KOREA	
1874	1020220069656	6/8/2022			KOREA	
1875	1020220081677	7/4/2022			KOREA	
1876	1020220081682	7/4/2022			KOREA	
1877	1020220081684	7/4/2022			KOREA	
1878	1020220087169	7/14/2022			KOREA	
1879	1020220088807	7/19/2022			KOREA	
1880	1020220092636	7/26/2022			KOREA	
1881	1020220095660	8/1/2022			KOREA	
1882	1020220095952	8/2/2022			KOREA	
1883	1020220096328	8/2/2022			KOREA	
1884	1020220097991	8/5/2022			KOREA	
1885	1020220100816	8/11/2022			KOREA	
1886	1020220102871	8/17/2022			KOREA	
1887	1020220110752	9/1/2022			KOREA	
1888	1020220107137	8/25/2022			KOREA	
1889	1020220112849	9/6/2022			KOREA	
1890	1020220123587	9/28/2022			KOREA	
1891	1020220129855	10/11/2022			KOREA	
1892	1020220137390	10/24/2022			KOREA	
1893	1020220139081	10/26/2022			KOREA	
1894	1020220147840	11/8/2022			KOREA	
1895	1020030039721	6/19/2003	10-0978924	8/24/2010	KOREA	
1896	1020030043715	6/30/2003	10-0926232	11/3/2009	KOREA	
1897	1020040065515	8/19/2004	10-0746468	7/30/2007	KOREA	
1898	1020040062020	8/6/2004	10-0693708	3/5/2007	KOREA	
1899	1020040075990	9/22/2004	10-0738195	7/4/2007	KOREA	
1900	1020040117765	12/31/2004	10-1080392	10/31/2011	KOREA	
1901	1020070038428	4/19/2007	10-1078478	10/25/2011	KOREA	
1902	1020070122667	11/29/2007	10-0931690	12/4/2009	KOREA	
1903	1020080110053	11/6/2008	10-1611608	4/5/2016	KOREA	
1904	1020090023254	3/18/2009	10-1537416	7/10/2015	KOREA	
1905	1020090059774	7/1/2009	10-1026619	3/25/2011	KOREA	
1906	1020090071454	8/3/2009	10-1072636	10/5/2011	KOREA	
1907	1020090071471	8/3/2009	10-1072635	10/5/2011	KOREA	
1908	1020090070800	7/31/2009	10-1079889	10/28/2011	KOREA	
1909	1020090127740	12/21/2009	10-1080012	10/28/2011	KOREA	
1910	1020090126303	12/17/2009	10-1079928	10/28/2011	KOREA	
1911	1020090121863	12/9/2009	10-1084780	11/11/2011	KOREA	
1912	1020100017374	2/25/2010	10-1079917	10/28/2011	KOREA	

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1913	1020100017415	2/25/2010	10-1105049	1/4/2012	KOREA	
1914	1020090127951	12/21/2009	10-1180590	8/31/2012	KOREA	
1915	1020040032087	5/7/2004	10-0667348	1/4/2007	KOREA	
1916	1020030061085	9/2/2003	10-0589676	6/7/2006	KOREA	
1917	1020030056918	8/18/2003	10-0534410	12/1/2005	KOREA	
1918	1020030097537	12/26/2003	10-0589894	6/8/2006	KOREA	
1919	1020040081685	10/13/2004	10-0691377	2/28/2007	KOREA	
1920	1020060025256	3/20/2006	10-0773822	10/31/2007	KOREA	
1921	1020040104462	12/10/2004	10-0684320	2/12/2007	KOREA	
1922	1020050035008	4/27/2005	10-0612657	8/8/2006	KOREA	
1923	1020050123797	12/15/2005	10-0667187	1/4/2007	KOREA	
1924	1020070030275	3/28/2007	10-0857614	9/2/2008	KOREA	
1925	1020060117881	11/27/2006	10-0893199	4/6/2009	KOREA	
1926	1020060119290	11/29/2006	10-0828547	5/2/2008	KOREA	
1927	1020050038847	5/10/2005	10-0667707	1/5/2007	KOREA	
1928	1020070034736	4/9/2007	10-0887739	3/2/2009	KOREA	
1929	1020070031404	3/30/2007	10-0882938	2/3/2009	KOREA	
1930	1020070064165	6/28/2007	10-0887743	3/2/2009	KOREA	3GPP RAN3
1931	1020070079714	8/8/2007	10-0905074	6/22/2009	KOREA	
1932	1020070108771	10/29/2007	10-0931689	12/4/2009	KOREA	
1933	1020080034758	4/15/2008	10-0965003	6/11/2010	KOREA	3GPP
1934	1020080015992	2/21/2008	10-0958928	5/12/2010	KOREA	
1935	1020080012568	2/12/2008	10-0947099	3/4/2010	KOREA	
1936	1020080029685	3/31/2008	10-1059231	8/18/2011	KOREA	
1937	1020080038261	4/24/2008	10-0958005	5/6/2010	KOREA	
1938	1020080080527	8/18/2008	10-0953484	4/9/2010	KOREA	
1939	1020080092694	9/22/2008	10-1006284	12/29/2010	KOREA	
1940	1020080097824	10/6/2008	10-1001045	12/7/2010	KOREA	
1941	1020080093651	9/24/2008	10-0991592	10/27/2010	KOREA	
1942	1020080112159	11/12/2008	10-0974659	8/2/2010	KOREA	
1943	1020080102126	10/17/2008	10-0932785	12/10/2009	KOREA	
1944	1020080100770	10/14/2008	10-1003626	12/16/2010	KOREA	
1945	1020080117219	11/25/2008	10-1017139	2/16/2011	KOREA	
1946	1020080109638	11/6/2008	10-1016637	2/15/2011	KOREA	
1947	1020080108914	11/4/2008	10-1038618	5/26/2011	KOREA	
1948	1020080118891	11/27/2008	10-1043617	6/16/2011	KOREA	
1949	1020090010630	2/10/2009	10-1050639	7/13/2011	KOREA	
1950	1020080119455	11/28/2008	10-1042525	6/13/2011	KOREA	
1951	1020090010494	2/10/2009	10-1040531	6/3/2011	KOREA	
1952	1020060064296	7/10/2006	10-0739490	7/9/2007	KOREA	
1953	1020060040363	5/4/2006	10-0705493	4/3/2007	KOREA	
1954	1020060041347	5/9/2006	10-0726809	6/4/2007	KOREA	
1955	1020060136320	12/28/2006	10-0788892	12/18/2007	KOREA	
1956	1020090011955	2/13/2009	10-0980852	9/1/2010	KOREA	
1957	1020090040455	5/8/2009	10-1051023	7/15/2011	KOREA	
1958	1020090058452	6/29/2009	10-1017441	2/17/2011	KOREA	
1959	1020040051944	7/5/2004	10-0560389	3/7/2006	KOREA	
1960	1020050109614	11/16/2005	10-0705501	4/3/2007	KOREA	
1961	1020050112776	11/24/2005	10-0726172	6/1/2007	KOREA	
1962	1020070139680	12/28/2007	10-0958020	5/6/2010	KOREA	
1963	1020100024592	3/19/2010	10-1523400	5/20/2015	KOREA	
1964	1020060121232	12/4/2006	10-1314314	9/26/2013	KOREA	
1965	1020060124898	12/8/2006	10-1365751	2/14/2014	KOREA	
1966	1020080044137	5/13/2008	10-1529080	6/10/2015	KOREA	
1967	1020100120958	11/30/2010	10-1344403	12/13/2013	KOREA	
1968	1020110009682	1/31/2011	10-1311517	9/16/2013	KOREA	
1969	1020110038037	4/22/2011	10-1503042	3/10/2015	KOREA	
1970	1020110076582	8/1/2011	10-1394610	5/7/2014	KOREA	

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1971	1020110077119	8/2/2011	10-1367946	2/20/2014	KOREA	
1972	1020110079647	8/10/2011	10-1394364	5/7/2014	KOREA	
1973	1020110078816	8/8/2011	10-1311525	9/16/2013	KOREA	
1974	1020110110113	10/26/2011	10-1311523	9/16/2013	KOREA	
1975	1020120031928	3/28/2012	10-1870375	6/18/2018	KOREA	
1976	1020120063356	6/13/2012	10-1311514	9/16/2013	KOREA	
1977	1020120065782	6/19/2012	10-1502137	3/6/2015	KOREA	
1978	1020120067345	6/22/2012	10-1555334	9/17/2015	KOREA	
1979	1020120099551	9/7/2012	10-1451417	10/8/2014	KOREA	
1980	1020120074904	7/10/2012	10-1431473	8/12/2014	KOREA	
1981	1020120123229	11/1/2012	10-1469242	11/28/2014	KOREA	
1982	1020120151327	12/21/2012	10-2069339	1/16/2020	KOREA	
1983	1020050120825	12/9/2005	10-1194829	11/2/2012	KOREA	
1984	1020130006129	1/18/2013	10-2099274	4/3/2020	KOREA	
1985	1020130160528	12/20/2013	10-2129900	6/29/2020	KOREA	3GPP RAN3
1986	1020140073774	6/17/2014	10-1612470	4/7/2016	KOREA	3GPP RAN3
1987	1020150127496	9/9/2015	10-1632386	6/15/2016	KOREA	3GPP RAN3
1988	1020170018827	2/10/2017	10-2224802	3/2/2021	KOREA	
1989	1020190112341	9/10/2019			KOREA	
1990	1020210142670	10/25/2021			KOREA	
1991	1020210184069	12/21/2021			KOREA	
1992	1020220014341	2/3/2022			KOREA	
1993	1020220087534	7/15/2022			KOREA	
1994	1020080094184	9/25/2008	10-1456699	10/24/2014	KOREA	
1995	1020080122245	12/4/2008	10-1078707	10/26/2011	KOREA	
1996	1020090103520	10/29/2009	10-1094505	12/8/2011	KOREA	
1997	1020090125044	12/15/2009	10-1082663	11/4/2011	KOREA	
1998	1020090116140	11/27/2009	10-1086234	11/17/2011	KOREA	
1999	1020040037027	5/24/2004	10-0622650	9/4/2006	KOREA	
2000	1020030094069	12/19/2003	10-0507541	8/2/2005	KOREA	
2001	1020030085530	11/28/2003	10-0600672	7/6/2006	KOREA	
2002	1020040092535	11/12/2004	10-0667178	1/4/2007	KOREA	
2003	1020050030886	4/14/2005	10-0667351	1/4/2007	KOREA	
2004	1020060009729	2/1/2006	10-0667350	1/4/2007	KOREA	
2005	1020060106745	10/31/2006	10-0836239	6/2/2008	KOREA	
2006	1020060104455	10/26/2006	10-0791602	12/27/2007	KOREA	
2007	1020070020984	3/2/2007	10-0873386	12/4/2008	KOREA	
2008	1020070044969	5/9/2007	10-0869812	11/14/2008	KOREA	
2009	1020070065817	6/29/2007	10-0911477	8/3/2009	KOREA	
2010	1020090055959	6/23/2009	10-0911482	8/3/2009	KOREA	
2011	1020070075702	7/27/2007	10-0887983	3/3/2009	KOREA	
2012	1020070098214	9/28/2007	10-0930054	11/27/2009	KOREA	
2013	1020080001911	1/7/2008	10-0948430	3/11/2010	KOREA	
2014	1020080031037	4/3/2008	10-1002113	12/10/2010	KOREA	
2015	1020080047976	5/23/2008	10-0993321	11/3/2010	KOREA	
2016	1020080046078	5/19/2008	10-1067048	9/16/2011	KOREA	
2017	1020080065959	7/8/2008	10-1235357	2/14/2013	KOREA	
2018	1020080076957	8/6/2008	10-0984522	9/24/2010	KOREA	
2019	1020080094824	9/26/2008	10-1004523	12/21/2010	KOREA	
2020	1020080115384	11/19/2008	10-1007379	1/4/2011	KOREA	
2021	1020060040361	5/4/2006	10-0683502	2/9/2007	KOREA	
2022	1020070124590	12/3/2007	10-0932555	12/9/2009	KOREA	
2023	1020090036580	4/27/2009	10-1015017	2/8/2011	KOREA	
2024	1020130034599	3/29/2013	10-1500664	3/3/2015	KOREA	
2025	1020200141264	10/28/2020	10-2441022	9/1/2022	KOREA	
2026	1020060115305	11/21/2006	10-0827197	4/25/2008	KOREA	
2027	1020100061276	6/28/2010	10-1688099	12/14/2016	KOREA	
2028	1020100093876	9/28/2010	10-1702488	1/26/2017	KOREA	

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2029	1020100119766	11/29/2010	10-1171378	7/31/2012	KOREA	
2030	1020110014199	2/17/2011	10-1391838	4/28/2014	KOREA	
2031	1020110034854	4/14/2011	10-1311519	9/16/2013	KOREA	
2032	1020060136322	12/28/2006	10-0821275	4/3/2008	KOREA	
2033	1020110080874	8/12/2011	10-1430241	8/7/2014	KOREA	
2034	1020110084388	8/24/2011	10-1820049	1/12/2018	KOREA	
2035	1020110097832	9/27/2011	10-1553601	9/10/2015	KOREA	
2036	1020110110624	10/27/2011	10-1311524	9/16/2013	KOREA	
2037	1020110136779	12/16/2011	10-1451419	10/8/2014	KOREA	
2038	1020120084424	8/1/2012	10-1951786	2/19/2019	KOREA	
2039	1020120067354	6/22/2012	10-1539976	7/22/2015	KOREA	
2040	1020120122510	10/31/2012	10-1507071	3/24/2015	KOREA	
2041	1020120146715	12/14/2012	10-1571878	11/19/2015	KOREA	
2042	1020130167376	12/30/2013	10-1571879	11/19/2015	KOREA	
2043	1020130169208	12/31/2013	10-1760927	7/18/2017	KOREA	
2044	1020140096796	7/29/2014	10-1598602	2/23/2016	KOREA	
2045	1020150105652	7/27/2015	10-1878874	7/10/2018	KOREA	
2046	1020180088194	7/27/2018			KOREA	
2047	1020210019160	2/10/2021	10-2440375	8/31/2022	KOREA	
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2049	1020210069156	5/28/2021			KOREA	
2050	1020220015999	2/8/2022			KOREA	
2051	1020030020085	3/31/2003	10-0955759	4/23/2010	KOREA	
2052	1020040005692	1/29/2004	10-1000105	12/3/2010	KOREA	
2053	1020080023501	3/13/2008	10-1394605	5/7/2014	KOREA	
2054	1020080132619	12/23/2008	10-1084769	11/11/2011	KOREA	
2055	1020050031178	4/14/2005	10-0687415	2/20/2007	KOREA	
2056	1020050123415	12/14/2005	10-0653529	11/27/2006	KOREA	
2057	1020060106736	10/31/2006	10-0821179	4/3/2008	KOREA	
2058	1020060108017	11/2/2006	10-0812391	3/4/2008	KOREA	
2059	1020070100635	10/5/2007	10-0931727	12/4/2009	KOREA	
2060	1020070094310	9/17/2007	10-0933782	12/16/2009	KOREA	
2061	1020080033909	4/11/2008	10-0961475	5/27/2010	KOREA	
2062	1020080006825	1/22/2008	10-0940873	1/29/2010	KOREA	
2063	1020080020137	3/4/2008	10-0959897	5/18/2010	KOREA	
2064	1020080095371	9/29/2008	10-1065128	9/7/2011	KOREA	
2065	1020080044661	5/14/2008	10-1421556	7/15/2014	KOREA	
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2067	1020080085265	8/29/2008	10-1014902	2/8/2011	KOREA	
2068	1020080090034	9/11/2008	10-1037072	5/19/2011	KOREA	
2069	1020080073139	7/25/2008	10-1478839	12/26/2014	KOREA	
2070	1020080098156	10/7/2008	10-1003690	12/16/2010	KOREA	
2071	1020080089563	9/11/2008	10-1002186	12/13/2010	KOREA	
2072	1020080119884	11/28/2008	10-1017464	2/17/2011	KOREA	
2073	1020080119648	11/28/2008	10-1006796	12/31/2010	KOREA	
2074	1020080120531	12/1/2008	10-1022334	3/8/2011	KOREA	
2075	1020090014240	2/20/2009	10-1015255	2/9/2011	KOREA	
2076	1020070103012	10/12/2007	10-0922003	10/8/2009	KOREA	
2077	1020090037553	4/29/2009	10-1029673	4/8/2011	KOREA	
2078	1020050121335	12/10/2005	10-0704681	4/2/2007	KOREA	
2079	1020050106165	11/7/2005	10-0723683	5/23/2007	KOREA	
2080	1020050112539	11/23/2005	10-0719834	5/14/2007	KOREA	
2081	1020050125650	12/19/2005	10-0681517	2/5/2007	KOREA	
2082	1020060123969	12/7/2006	10-1315479	9/30/2013	KOREA	
2083	1020100024857	3/19/2010	10-1689883	12/20/2016	KOREA	
2084	1020110081337	8/16/2011	10-1289879	7/19/2013	KOREA	3GPP
2085	1020120031088	3/27/2012	10-1301302	8/22/2013	KOREA	
2086	1020110142728	12/26/2011	10-1301303	8/22/2013	KOREA	

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2088	1020120031929	3/28/2012	10-1946048	1/30/2019	KOREA	
2089	1020110142726	12/26/2011	10-1311518	9/16/2013	KOREA	
2090	1020120048811	5/8/2012	10-1295897	8/6/2013	KOREA	
2091	1020120058665	5/31/2012	10-1874628	6/28/2018	KOREA	
2092	1020120058555	5/31/2012	10-1609366	3/30/2016	KOREA	
2093	1020120112627	10/10/2012	10-1531032	6/17/2015	KOREA	
2094	1020120127658	11/12/2012	10-1465245	11/19/2014	KOREA	
2095	1020130169242	12/31/2013	10-1763897	7/26/2017	KOREA	
2096	1020140047704	4/21/2014	10-2202661	1/7/2021	KOREA	
2097	1020160169744	12/13/2016	10-1925139	11/28/2018	KOREA	
2098	1020180053880	5/10/2018			KOREA	
2099	1020180103436	8/31/2018	10-2362888	2/9/2022	KOREA	
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2102	1020220140765	10/27/2022			KOREA	
2103	1020220162910	11/29/2022			KOREA	
2104	1020040016944	3/12/2004	10-1002126	12/10/2010	KOREA	
2105	1020040075499	9/21/2004	10-0788136	12/14/2007	KOREA	
2106	1020040032642	5/10/2004	10-0527636	11/3/2005	KOREA	
2107	1020060107633	11/2/2006	10-0791599	12/27/2007	KOREA	
2108	1020070005056	1/17/2007	10-0865377	10/20/2008	KOREA	
2109	1020080055685	6/13/2008	10-1003655	12/16/2010	KOREA	
2110	1020070045139	5/9/2007	10-0854513	8/20/2008	KOREA	
2111	1020040108220	12/17/2004	10-0589896	6/8/2006	KOREA	
2112	1020040108221	12/17/2004	10-0589897	6/8/2006	KOREA	
2113	1020080026610	3/21/2008	10-1007378	1/4/2011	KOREA	
2114	1020080076554	8/5/2008	10-0991611	10/27/2010	KOREA	
2115	1020080119760	11/28/2008	10-1001067	12/7/2010	KOREA	
2116	1020050120821	12/9/2005	10-0705448	4/3/2007	KOREA	
2117	1020070003739	1/12/2007	10-1287219	7/11/2013	KOREA	
2118	1020100039062	4/27/2010	10-1615693	4/20/2016	KOREA	
2119	1020100076084	8/6/2010	10-1006949	1/3/2011	KOREA	
2120	1020110033790	4/12/2011	10-1343634	12/13/2013	KOREA	
2121	1020110040187	4/28/2011	10-1226617	1/21/2013	KOREA	
2122	1020110079271	8/9/2011	10-1311512	9/16/2013	KOREA	
2123	1020110093648	9/16/2011	10-1408031	6/10/2014	KOREA	
2124	1020110134641	12/14/2011	10-1402934	5/27/2014	KOREA	
2125	1020120080770	7/24/2012	10-1537099	7/9/2015	KOREA	
2126	1020160086414	7/7/2016	10-1861803	5/21/2018	KOREA	
2127	1020160107087	8/23/2016	10-1954181	2/26/2019	KOREA	
2128	1020170055664	4/28/2017	10-1954227	2/26/2019	KOREA	
2129	1020170175552	12/19/2017	10-2375208	3/11/2022	KOREA	
2130	1020180044135	4/16/2018	10-2180796	11/13/2020	KOREA	
2131	1020190007502	1/21/2019			KOREA	
2132	1020200018942	2/17/2020	10-2249464	4/30/2021	KOREA	
2133	1020190068642	6/11/2019	10-2360968	2/4/2022	KOREA	
2134	1020190057807	5/17/2019			KOREA	
2135	1020190138309	11/1/2019			KOREA	
2136	1020190148921	11/19/2019			KOREA	
2137	1020200028400	3/6/2020	10-2433357	8/11/2022	KOREA	
2138	1020200152880	11/16/2020			KOREA	
2139	1020210094423	7/19/2021			KOREA	
2140	1020210096024	7/21/2021			KOREA	
2141	1020210032694	3/12/2021	10-2274237	7/1/2021	KOREA	
2142	1020210136163	10/13/2021			KOREA	
2143	1020210140768	10/21/2021			KOREA	
2144	1020220086693	7/14/2022			KOREA	

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2145	1020220076348	6/22/2022			KOREA	
2146	1020220123458	9/28/2022			KOREA	
2147	1020030050597	7/23/2003	10-0958926	5/12/2010	KOREA	
2148	1020040090354	11/8/2004	10-0826629	4/24/2008	KOREA	
2149	1020080045629	5/16/2008	10-1095469	12/12/2011	KOREA	
2150	1020080085129	8/29/2008	10-1504357	3/13/2015	KOREA	
2151	1020090127092	12/18/2009	10-1629955	6/7/2016	KOREA	
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2153	1020040019267	3/22/2004	10-0603500	7/13/2006	KOREA	
2154	1020050005948	1/21/2005	10-0680300	2/1/2007	KOREA	
2155	1020060017596	2/23/2006	10-0727076	6/4/2007	KOREA	
2156	1020050021343	3/15/2005	10-0682075	2/6/2007	KOREA	
2157	1020060087471	9/11/2006	10-0727324	6/5/2007	KOREA	
2158	1020060106117	10/31/2006	10-0842329	6/24/2008	KOREA	
2159	1020080047872	5/23/2008	10-1005555	12/27/2010	KOREA	
2160	1020070064574	6/28/2007	10-0897396	5/6/2009	KOREA	
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2162	1020070132652	12/17/2007	10-0948429	3/11/2010	KOREA	
2163	1020080026826	3/24/2008	10-1042438	6/10/2011	KOREA	
2164	1020080049511	5/28/2008	10-0987129	10/5/2010	KOREA	
2165	1020080030912	4/2/2008	10-0981242	9/2/2010	KOREA	
2166	1020080040964	5/1/2008	10-1417898	7/3/2014	KOREA	
2167	1020080057235	6/18/2008	10-0988767	10/13/2010	KOREA	
2168	1020080056833	6/17/2008	10-0957022	5/3/2010	KOREA	
2169	1020080057236	6/18/2008	10-0990727	10/22/2010	KOREA	
2170	1020080093636	9/24/2008	10-0995957	11/16/2010	KOREA	
2171	1020080095547	9/29/2008	10-0970220	7/7/2010	KOREA	
2172	1020080060298	6/25/2008	10-0993948	11/5/2010	KOREA	
2173	1020080079096	8/12/2008	10-1001020	12/7/2010	KOREA	
2174	1020080088024	9/8/2008	10-0964247	6/9/2010	KOREA	
2175	1020080105692	10/28/2008	10-1022322	3/8/2011	KOREA	
2176	1020080104597	10/24/2008	10-1082022	11/3/2011	KOREA	
2177	1020080079460	8/13/2008	10-1036628	5/17/2011	KOREA	
2178	1020080095495	9/29/2008	10-0972082	7/16/2010	KOREA	
2179	1020080111641	11/11/2008	10-0982863	9/10/2010	KOREA	
2180	1020080100806	10/14/2008	10-0986763	10/4/2010	KOREA	
2181	1020080118646	11/27/2008	10-0982573	9/9/2010	KOREA	
2182	1020080122009	12/3/2008	10-0996981	11/22/2010	KOREA	
2183	1020080135893	12/29/2008	10-1058667	8/16/2011	KOREA	
2184	1020080138155	12/31/2008	10-1052175	7/20/2011	KOREA	
2185	1020090033820	4/17/2009	10-1051022	7/15/2011	KOREA	
2186	1020100034118	4/14/2010	10-1771205	8/18/2017	KOREA	
2187	1020100133857	12/23/2010	10-1246357	3/15/2013	KOREA	
2188	1020110034853	4/14/2011	10-1338490	12/2/2013	KOREA	
2189	1020120042293	4/23/2012	10-1531031	6/17/2015	KOREA	
2190	1020130044217	4/22/2013	10-1521271	5/12/2015	KOREA	
2191	1020130055844	5/16/2013	10-1521272	5/12/2015	KOREA	
2192	1020140046546	4/18/2014	10-1635195	6/24/2016	KOREA	
2193	1020140057274	5/13/2014	10-1548229	8/24/2015	KOREA	
2194	1020160042431	4/6/2016	10-1686536	12/8/2016	KOREA	
2195	1020180084162	7/19/2018	10-2310327	9/30/2021	KOREA	
2196	1020190063152	5/29/2019			KOREA	
2197	1020200135005	10/19/2020	10-2343962	12/22/2021	KOREA	
2198	1020080036059	4/18/2008	10-1048228	7/4/2011	KOREA	
2199	1020080077636	8/7/2008	10-1459558	11/3/2014	KOREA	
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2201	1020040061816	8/5/2004	10-0644392	11/2/2006	KOREA	
2202	1020040082661	10/15/2004	10-0600673	7/6/2006	KOREA	

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2203	1020060019451	2/28/2006	10-0756833	8/31/2007	KOREA	
2204	1020060051625	6/8/2006	10-0775570	11/5/2007	KOREA	
2205	1020040091824	11/11/2004	10-0667697	1/5/2007	KOREA	
2206	1020060000356	1/3/2006	10-0757524	9/4/2007	KOREA	
2207	1020060003141	1/11/2006	10-0746465	7/30/2007	KOREA	
2208	1020060016608	2/21/2006	10-0748267	8/3/2007	KOREA	
2209	1020060048976	5/30/2006	10-0757530	9/4/2007	KOREA	
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2211	1020070037027	4/16/2007	10-0836257	6/2/2008	KOREA	
2212	1020070053388	5/31/2007	10-0901358	6/1/2009	KOREA	
2213	1020070124589	12/3/2007	10-0931731	12/4/2009	KOREA	
2214	1020080063014	6/30/2008	10-0957641	5/4/2010	KOREA	
2215	1020080080548	8/18/2008	10-1007377	1/4/2011	KOREA	
2216	1020080092243	9/19/2008	10-1017453	2/17/2011	KOREA	
2217	1020080100008	10/13/2008	10-1000384	12/6/2010	KOREA	
2218	1020080092761	9/22/2008	10-1002148	12/10/2010	KOREA	
2219	1020080104036	10/23/2008	10-0964242	6/9/2010	KOREA	
2220	1020080108536	11/3/2008	10-1008910	1/11/2011	KOREA	
2221	1020080093787	9/24/2008	10-0983805	9/16/2010	KOREA	
2222	1020090019111	3/6/2009	10-0999650	12/2/2010	KOREA	
2223	1020090035973	4/24/2009	10-1043169	6/14/2011	KOREA	
2224	1020050106540	11/8/2005	10-0668662	1/8/2007	KOREA	
2225	1020050118747	12/7/2005	10-0705447	4/3/2007	KOREA	
2226	1020060000924	1/4/2006	10-0729727	6/12/2007	KOREA	
2227	1020130087547	7/24/2013	10-1909557	10/12/2018	KOREA	
2228	1020130098480	8/20/2013	10-1502973	3/10/2015	KOREA	
2229	1020130093104	8/6/2013	10-1511305	4/6/2015	KOREA	
2230	1020150081417	6/9/2015	10-1746202	6/5/2017	KOREA	
2231	1020150134897	9/23/2015	10-1909263	10/11/2018	KOREA	
2232	1020160046343	4/15/2016	10-2012449	8/13/2019	KOREA	
2233	1020160063697	5/24/2016	10-2055911	12/9/2019	KOREA	
2234	1020170138710	10/24/2017	10-2069805	1/17/2020	KOREA	
2235	1020170082623	6/29/2017	10-2048469	11/19/2019	KOREA	
2236	1020170149020	11/9/2017	10-2226891	3/5/2021	KOREA	
2237	1020170175553	12/19/2017	10-2205480	1/14/2021	KOREA	
2238	1020170174449	12/18/2017	10-2243263	4/16/2021	KOREA	
2239	1020190003791	1/11/2019	10-2298907	9/1/2021	KOREA	
2240	1020180135430	11/6/2018			KOREA	
2241	1020190083305	7/10/2019	10-2214915	2/4/2021	KOREA	
2242	1020190101384	8/19/2019			KOREA	
2243	1020190131701	10/22/2019	10-2465325	11/4/2022	KOREA	
2244	1020190122213	10/2/2019			KOREA	
2245	1020190173438	12/23/2019			KOREA	
2246	1020190091467	7/29/2019	10-2319534	10/25/2021	KOREA	
2247	1020200000744	1/3/2020			KOREA	
2248	1020200020495	2/19/2020			KOREA	
2249	1020200040348	4/2/2020			KOREA	
2250	1020200011772	1/31/2020			KOREA	
2251	1020200047929	4/21/2020			KOREA	
2252	1020200096354	7/31/2020			KOREA	WiMAX Forum
2253	1020200154904	11/18/2020			KOREA	
2254	1020200139756	10/26/2020			KOREA	
2255	1020210008836	1/21/2021			KOREA	
2256	1020210027273	3/2/2021			KOREA	
2257	1020210067645	5/26/2021			KOREA	
2258	1020210115079	8/30/2021			KOREA	
2259	1020220126534	10/4/2022			KOREA	
2260	1020220146173	11/4/2022			KOREA	

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2261	1020080004746	1/16/2008	10-1002187	12/13/2010	KOREA	3GPP SA2 예정
2262	1020100063020	6/30/2010	10-1648894	8/10/2016	KOREA	
2263	1020110042419	5/4/2011	10-1797471	11/8/2017	KOREA	
2264	1020120111855	10/9/2012	10-1598621	3/23/2016	KOREA	
2265	1020130074874	6/27/2013	10-1515598	4/21/2015	KOREA	
2266	1020130148821	12/2/2013	10-2143206	8/4/2020	KOREA	
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2296	1020210021205	2/17/2021			KOREA	
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2304	1020060107427	11/1/2006	10-0784252	12/4/2007	KOREA	
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2317	1020120055544	5/24/2012	10-1488883	1/27/2015	KOREA	
2318	1020120065179	6/18/2012	10-1909262	10/11/2018	KOREA	

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2458	1020070037547	4/17/2007	10-0868189	11/4/2008	KOREA	
2459	1020060109002	11/6/2006	10-0774831	11/1/2007	KOREA	
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2467	1020080061880	6/27/2008	10-1030837	4/15/2011	KOREA	
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2469	1020080047206	5/21/2008	10-0989271	10/14/2010	KOREA	
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2491	1020170134866	10/17/2017	10-2000717	7/10/2019	KOREA	
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2528	1020080077409	8/7/2008	10-1512849	4/10/2015	KOREA	
2529	1020100020916	3/9/2010	10-1653321	8/26/2016	KOREA	
2530	1020100022175	3/12/2010	10-1173403	8/6/2012	KOREA	
2531	1020100027932	3/29/2010	10-1617776	4/27/2016	KOREA	
2532	1020100027873	3/29/2010	10-1653323	8/26/2016	KOREA	
2533	1020100062625	6/30/2010	10-1698602	1/16/2017	KOREA	
2534	1020100044614	5/12/2010	10-1698134	1/13/2017	KOREA	
2535	1020100045005	5/13/2010	10-1206614	11/23/2012	KOREA	
2536	1020100132801	12/22/2010	10-1746813	6/7/2017	KOREA	
2537	1020100063032	6/30/2010	10-1659412	9/19/2016	KOREA	
2538	1020110080551	8/12/2011	10-1098115	12/16/2011	KOREA	
2539	1020120105129	9/21/2012	10-1954265	2/26/2019	KOREA	
2540	1020120128188	11/13/2012	10-1509074	3/31/2015	KOREA	
2541	1020130001696	1/7/2013	10-1544898	8/10/2015	KOREA	
2542	1020120146324	12/14/2012	10-1506307	3/20/2015	KOREA	
2543	1020130086057	7/22/2013	10-1574317	11/27/2015	KOREA	
2544	1020140125202	9/19/2014	10-1902005	9/18/2018	KOREA	
2545	1020150178029	12/14/2015	10-1813038	12/21/2017	KOREA	
2546	1020160001104	1/5/2016	10-1809122	12/8/2017	KOREA	
2547	1020160062090	5/20/2016	10-1813039	12/21/2017	KOREA	
2548	1020160130938	10/10/2016	10-1845883	3/30/2018	KOREA	
2549	1020170088973	7/13/2017	10-2359131	1/28/2022	KOREA	
2550	1020180042262	4/11/2018	10-2050027	11/22/2019	KOREA	

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2552	1020180119265	10/5/2018			KOREA	
2553	1020180128520	10/25/2018	10-2160697	9/22/2020	KOREA	
2554	1020180140309	11/14/2018	10-2148205	8/20/2020	KOREA	
2555	1020190113300	9/16/2019			KOREA	
2556	1020190173439	12/23/2019	10-2341243	12/15/2021	KOREA	
2557	1020200083448	7/7/2020			KOREA	
2558	1020200143864	10/30/2020			KOREA	
2559	1020200139185	10/26/2020	10-2416644	6/30/2022	KOREA	
2560	1020210149748	11/3/2021			KOREA	
2561	1020220122180	9/27/2022			KOREA	
2562	1020220091646	7/25/2022			KOREA	
2563	1020220123414	9/28/2022			KOREA	
2564	1020050081258	9/1/2005	10-0703426	3/28/2007	KOREA	
2565	1020050081815	9/2/2005	10-0713625	4/25/2007	KOREA	
2566	1020050079183	8/29/2005	10-0644220	11/2/2006	KOREA	
2567	1020060128846	12/15/2006	10-1334482	11/22/2013	KOREA	
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2569	1020080055870	6/13/2008	10-0965090	6/11/2010	KOREA	
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2572	1020080115256	11/19/2008	10-1082668	11/4/2011	KOREA	
2573	1020090070622	7/31/2009	10-1079977	10/28/2011	KOREA	
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2575	1020090107699	11/9/2009	10-1158758	6/15/2012	KOREA	
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2579	1020060108250	11/3/2006	10-0821186	4/3/2008	KOREA	
2580	1020060109457	11/7/2006	10-0821199	4/3/2008	KOREA	
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2583	1020060109488	11/7/2006	10-0775540	11/5/2007	KOREA	
2584	1020060119919	11/30/2006	10-0845310	7/3/2008	KOREA	
2585	1020070038052	4/18/2007	10-0933773	12/16/2009	KOREA	
2586	1020070045469	5/10/2007	10-0867449	10/31/2008	KOREA	
2587	1020070062450	6/25/2007	10-0898634	5/13/2009	KOREA	
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2589	1020070087913	8/30/2007	10-0890827	3/20/2009	KOREA	
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2596	1020070099911	10/4/2007	10-0954830	4/19/2010	KOREA	
2597	1020070099242	10/2/2007	10-1015007	2/8/2011	KOREA	
2598	1020070099913	10/4/2007	10-0940090	1/26/2010	KOREA	
2599	1020070099914	10/4/2007	10-0924808	10/27/2009	KOREA	
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2605	1020080104359	10/23/2008	10-1030826	4/15/2011	KOREA	
2606	1020080119108	11/27/2008	10-1024279	3/16/2011	KOREA	
2607	1020080102661	10/20/2008	10-0981164	9/2/2010	KOREA	
2608	1020080101551	10/16/2008	10-1022376	3/8/2011	KOREA	

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2610	1020080117552	11/25/2008	10-1004472	12/21/2010	KOREA	
2611	1020080109093	11/4/2008	10-1007736	1/5/2011	KOREA	
2612	1020080121842	12/3/2008	10-0968958	7/1/2010	KOREA	
2613	1020090037038	4/28/2009	10-1574758	11/30/2015	KOREA	
2614	1020090043715	5/19/2009	10-1007369	1/4/2011	KOREA	
2615	1020110025710	3/23/2011	10-1361823	2/5/2014	KOREA	
2616	1020040078011	9/30/2004	10-0877475	12/29/2008	KOREA	
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2618	1020090079362	8/26/2009	10-1080315	10/31/2011	KOREA	
2619	1020090079363	8/26/2009	10-1080314	10/31/2011	KOREA	
2620	1020090079364	8/26/2009	10-1080304	10/31/2011	KOREA	
2621	1020090077567	8/21/2009	10-1038599	5/26/2011	KOREA	
2622	1020090104793	11/2/2009	10-1167640	7/16/2012	KOREA	
2623	1020090104846	11/2/2009	10-1177100	8/20/2012	KOREA	
2624	1020030096763	12/24/2003	10-0622660	9/4/2006	KOREA	
2625	1020040089122	11/4/2004	10-0640734	10/25/2006	KOREA	
2626	1020060113451	11/16/2006	10-0850513	7/30/2008	KOREA	
2627	1020070047232	5/15/2007	10-0895678	4/23/2009	KOREA	
2628	1020070062310	6/25/2007	10-0882521	2/2/2009	KOREA	
2629	1020070073726	7/23/2007	10-0882942	2/3/2009	KOREA	
2630	1020080010275	1/31/2008	10-0996643	11/19/2010	KOREA	
2631	1020080073008	7/25/2008	10-0996569	11/18/2010	KOREA	
2632	1020080085250	8/29/2008	10-1000100	12/3/2010	KOREA	
2633	1020080116228	11/21/2008	10-1082751	11/4/2011	KOREA	
2634	1020090027667	3/31/2009	10-1043163	6/14/2011	KOREA	
2635	1020090027570	3/31/2009	10-1043119	6/14/2011	KOREA	
2636	1020090028523	4/2/2009	10-1002093	12/10/2010	KOREA	
2637	1020090034877	4/22/2009	10-1070999	9/29/2011	KOREA	
2638	1020090035436	4/23/2009	10-1058941	8/17/2011	KOREA	
2639	1020090048138	6/1/2009	10-1090611	11/30/2011	KOREA	
2640	1020020077330	12/6/2002	10-0494289	5/31/2005	KOREA	
2641	1020110026364	3/24/2011	10-1136698	4/6/2012	KOREA	
2642	1020030043661	6/30/2003	10-0948184	3/10/2010	KOREA	
2643	1020030042991	6/28/2003	10-1001465	12/8/2010	KOREA	
2644	1020040011496	2/20/2004	10-1019849	2/25/2011	KOREA	
2645	1020040014041	3/2/2004	10-1023605	3/11/2011	KOREA	
2646	1020040117731	12/31/2004	10-1098576	12/19/2011	KOREA	
2647	1020050036679	5/2/2005	10-0857267	9/1/2008	KOREA	
2648	1020060061185	6/30/2006	10-0837817	6/5/2008	KOREA	
2649	1020070065601	6/29/2007	10-1046450	6/28/2011	KOREA	
2650	1020080131538	12/22/2008	10-1025083	3/18/2011	KOREA	
2651	1020090070996	7/31/2009	10-1119869	1/29/2012	KOREA	
2652	1020090127278	12/18/2009	10-1229128	1/28/2013	KOREA	
2653	1020050074295	8/12/2005	10-0716680	5/3/2007	KOREA	
2654	1020050079170	8/29/2005	10-0716707	5/3/2007	KOREA	
2655	1020080048110	5/23/2008	10-1065121	9/7/2011	KOREA	
2656	1020080053622	6/9/2008	10-0962654	6/3/2010	KOREA	
2657	1020080033898	4/11/2008	10-0960501	5/20/2010	KOREA	
2658	1020080053571	6/9/2008	10-0962620	6/3/2010	KOREA	
2659	1020080105991	10/28/2008	10-1060898	8/24/2011	KOREA	
2660	1020110016646	2/24/2011	10-1328981	11/7/2013	KOREA	
2661	1020170025373	2/27/2017			KOREA	
2662	1020190126733	10/14/2019	10-2457430	10/18/2022	KOREA	
2663	1020190108978	9/3/2019			KOREA	
2664	1020210024956	2/24/2021			KOREA	
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2666	1020060125951	12/12/2006	10-0788964	12/18/2007	KOREA	

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2667	1020060130364	12/19/2006	10-1202145	11/9/2012	KOREA	
2668	1020050111368	11/21/2005	10-0692632	3/2/2007	KOREA	
2669	1020050107242	11/9/2005	10-0650701	11/21/2006	KOREA	
2670	1020060103170	10/23/2006	10-0845307	7/3/2008	KOREA	
2671	1020050107243	11/9/2005	10-0650702	11/21/2006	KOREA	
2672	1020070122138	11/28/2007	10-0907610	7/6/2009	KOREA	
2673	2010-513112	12/21/2009	5485880	2/28/2014	JAPAN	
2674	2010-513111	12/21/2009	5116846	10/26/2012	JAPAN	
2675	2010-513110	12/21/2009	5270673	5/17/2013	JAPAN	
2676	2012-515978	12/15/2011	5706404	3/6/2015	JAPAN	
2677	2013-508982	4/28/2011	5784707	7/31/2015	JAPAN	
2678	2013-514103	11/30/2012	5889881	2/26/2016	JAPAN	
2679	2013-049532	3/12/2013	5814282	10/2/2015	JAPAN	
2680	2015-513950	11/20/2014	5981644	8/5/2016	JAPAN	3GPP RAN1
2681	2019-558753	10/28/2019	6945649	9/16/2021	JAPAN	
2682	2021-574244	12/13/2021			JAPAN	
2683	2008-528936	2/28/2008	4790018	7/29/2011	JAPAN	
2684	2008-555153	8/12/2008	5078915	9/7/2012	JAPAN	
2685	2009-501353	9/19/2008	4897038	1/6/2012	JAPAN	
2686	2007-529658	2/26/2007	5042834	7/20/2012	JAPAN	
2687	2008-549437	7/8/2008	4838323	10/7/2011	JAPAN	
2688	2007-546550	6/15/2007	4819826	9/9/2011	JAPAN	
2689	2009-542657	6/18/2009	5079014	9/7/2012	JAPAN	
2690	2009-507604	10/22/2008	4759640	6/10/2011	JAPAN	
2691	2009-536165	5/8/2009	4992146	5/18/2012	JAPAN	
2692	08766401.7	1/7/2010	2160909	6/14/2017	ITALY	
2693	06823636.3	5/13/2008	1949634	4/27/2016	ITALY	
2694	1455/MUMNP/2008	7/10/2008	266832	6/5/2015	INDIA	
2695	13104676.8	4/17/2013	1177856	10/13/2017	HONG KONG	
2696	06769062.8	6/27/2006	1911193	7/23/2013	GERMANY	
2697	08766401.7	1/7/2010	2160909	6/14/2017	GERMANY	
2698	06823636.3	5/13/2008	1949634	4/27/2016	GERMANY	
2699	07715736.0	3/20/2007	2005404	3/21/2018	GERMANY	
2700	05825821.1	9/8/2005	1825694	9/7/2016	GERMANY	
2701	60 2005 055 037.2	12/13/2018	1794936	11/21/2018	GERMANY	
2702	10789706.8	1/16/2012	2 445 241	8/8/2018	GERMANY	
2703	06847336.2	7/26/2007	1955442	4/24/2019	GERMANY	
2704	18152806.8	1/22/2018	3331219	11/20/2019	GERMANY	
2705	15812323.2	12/14/2016	3163809	12/11/2019	GERMANY	
2706	16818098.2	12/26/2017	3301969	12/18/2019	GERMANY	
2707	16818097.4	12/26/2017	3301968	12/18/2019	GERMANY	
2708	13804562.0	11/21/2014	2859664	12/9/2020	GERMANY	3GPP RAN1
2709	07833934.8	4/27/2009	2084923	12/23/2020	GERMANY	
2710	60 2007 029 338.3	5/30/2007	2097994	5/30/2007	GERMANY	
2711	06769062.8	6/27/2006	1911193	6/19/2013	FRANCE	
2712	08766402.5	1/7/2010	2163113	5/25/2016	FRANCE	
2713	08766401.7	1/7/2010	2160909	6/14/2017	FRANCE	
2714	06823636.3	5/13/2008	1949634	4/27/2016	FRANCE	
2715	07833307.7	10/12/2007	2078355	12/25/2013	FRANCE	
2716	13804562.0	11/21/2014	2859664	12/9/2020	FRANCE	3GPP RAN1
2717	07833934.8	4/27/2009	2084923	12/23/2020	FRANCE	
2718	17866547.7	5/13/2019	3537794	9/8/2021	FRANCE	3GPP RAN1
2719	16827939.6	1/16/2018			E.P.O	3GPP RAN1
2720	17806954.8	12/20/2018			E.P.O	
2721	18748552.9	7/24/2019			E.P.O	3GPP RAN2
2722	17820554.8	1/9/2019			E.P.O	3GPP RAN2
2723	21156931.4	2/12/2021			E.P.O	3GPP RAN2
2724	19847867.9	3/9/2021			E.P.O	3GPP RAN1

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2725	19846202.0	2/19/2021			E.P.O	3GPP RAN1
2726	19850521.6	3/16/2021			E.P.O	3GPP RAN1
2727	20853322.4	9/15/2021			E.P.O	3GPP RAN1
2728	19876374.0	5/5/2021			E.P.O	3GPP RAN2
2729	19857234.9	3/26/2021			E.P.O	3GPP RAN1
2730	19854142.7	3/26/2021			E.P.O	3GPP RAN2
2731	21179137.1	6/11/2021			E.P.O	3GPP RAN1
2732	19908873.3	7/28/2021			E.P.O	3GPP RAN2
2733	21184747.0	7/9/2021			E.P.O	3GPP RAN1
2734	20864751.1	2/2/2022			E.P.O	
2735	21187294.0	7/22/2021			E.P.O	3GPP RAN1
2736	22151597.6	1/14/2022			E.P.O	3GPP RAN1
2737	22151627.1	1/14/2022			E.P.O	3GPP RAN1
2738	20879753.0	4/13/2022			E.P.O	3GPP RAN2
2739	20864860.0	3/23/2022			E.P.O	3GPP RAN2
2740	22164524.5	3/25/2022			E.P.O	3GPP RAN1
2741	22167007.8	4/6/2022			E.P.O	3GPP RAN1
2742	22305789.4	5/30/2022			E.P.O	3GPP RAN1
2743	21753121.9	9/14/2022			E.P.O	3GPP RAN2
2744	21747746.2	8/29/2022			E.P.O	3GPP RAN2
2745	21803184.7	11/3/2022			E.P.O	3GPP RAN2
2746	21784267.3	11/7/2022			E.P.O	3GPP RAN2
2747	21785665.7	11/7/2022			E.P.O	3GPP RAN2
2748	201080036301.X	2/16/2012	ZL201080036301.X	12/10/2014	CHINA	
2749	201180028322.1	12/7/2012	ZL201180028322.1	8/31/2016	CHINA	
2750	201380026229.6	11/19/2014	ZL201380026229.6	12/21/2018	CHINA	3GPP RAN1
2751	201380023072.1	10/31/2014	ZL201380023072.1	9/21/2018	CHINA	
2752	201380052383.0	4/7/2015	ZL201380052383.0	8/28/2018	CHINA	3GPP RAN1
2753	201480011021.1	8/27/2015	ZL201480011021.1	10/19/2018	CHINA	3GPP RAN2
2754	201480008810.X	8/13/2015	ZL201480008810.X	5/7/2019	CHINA	3GPP RAN2
2755	201480007262.9	8/3/2015	ZL201480007262.9	12/29/2017	CHINA	3GPP RAN2
2756	201480018997.1	9/28/2015	ZL201480018997.1	6/1/2018	CHINA	3GPP RAN1
2757	201510629288.3	9/28/2015	ZL201510629288.3	4/5/2019	CHINA	3GPP RAN1
2758	201480045384.7	2/15/2016	ZL201480045384.7	5/17/2019	CHINA	3GPP RAN2
2759	201480053616.3	3/28/2016	ZL201480053616.3	2/7/2020	CHINA	3GPP RAN2
2760	201480026285.4	11/9/2015	ZL 201480026285.4	4/19/2019	CHINA	IEEE 802.11
2761	201480036994.0	12/28/2015	ZL201480036994.0	9/20/2019	CHINA	IEEE 802.11
2762	201480036900.X	12/28/2015	ZL 201480036900.X	3/22/2019	CHINA	IEEE 802.11
2763	201480058780.3	4/26/2016	ZL201480058780.3	2/7/2020	CHINA	3GPP RAN2
2764	201480056219.1	4/12/2016	ZL201480056219.1	3/3/2020	CHINA	3GPP RAN1
2765	201580006950.8	8/2/2016	ZL201580006950.8	10/18/2019	CHINA	3GPP RAN1
2766	201610154305.7	3/17/2016	ZL201610154305.7	4/30/2019	CHINA	3GPP RAN2
2767	201610384457.6	6/2/2016	ZL201610384457.6	12/27/2019	CHINA	3GPP RAN1
2768	201610810752.3	9/8/2016	ZL201610810752.3	11/12/2019	CHINA	3GPP RAN2
2769	201610818101.9	9/12/2016	ZL201610818101.9	12/4/2020	CHINA	3GPP RAN2
2770	201580051723.7	3/24/2017	ZL201580051723.7	6/30/2020	CHINA	3GPP RAN1
2771	201610814777.0	9/9/2016	ZL201610814777.0	4/21/2020	CHINA	3GPP RAN2
2772	201610953364.0	11/3/2016	ZL201610953364.0	12/8/2020	CHINA	3GPP RAN1
2773	201610947131.X	10/26/2016	ZL201610947131.X	6/28/2019	CHINA	3GPP RAN1
2774	201710110786.6	2/28/2017	ZL201710110786.6	6/22/2021	CHINA	3GPP RAN1
2775	201580049891.2	3/16/2017	ZL201580049891.2	2/4/2020	CHINA	3GPP RAN2
2776	201710043449.X	1/19/2017	ZL201710043449.X	9/29/2020	CHINA	3GPP RAN2
2777	201580053460.3	3/31/2017	ZL201580053460.3	7/7/2020	CHINA	3GPP RAN2
2778	201580053056.6	3/30/2017	ZL201580053056.6	6/5/2020	CHINA	3GPP RAN2
2779	201680007805.6	7/28/2017	ZL201680007805.6	10/30/2020	CHINA	3GPP RAN2
2780	201680006423.1	7/19/2017	ZL201680006423.1	5/12/2020	CHINA	3GPP RAN2
2781	201710251778.3	4/18/2017	ZL201710251778.3	4/21/2020	CHINA	3GPP RAN2
2782	201710670765.X	8/8/2017	ZL201710670765.X	12/3/2021	CHINA	3GPP RAN1

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2783	P20160587CN	8/9/2017	ZL201710675075.3	10/8/2021	CHINA	3GPP RAN1
2784	201710416717.8	6/6/2017	ZL201710416717.8	6/30/2020	CHINA	3GPP RAN1
2785	201710625164.7	7/27/2017	ZL201710625164.7	12/3/2021	CHINA	3GPP RAN2
2786	201710624334.X	7/27/2017	ZL201710624334.X	8/20/2021	CHINA	3GPP RAN1
2787	201680006062.0	7/17/2017	ZL 201680006062.0	6/4/2021	CHINA	
2788	201710651438.X	8/2/2017	ZL201710651438.X	12/14/2021	CHINA	3GPP RAN1
2789	201710651862.4	8/2/2017	ZL201710651862.4	2/19/2021	CHINA	3GPP RAN1
2790	201710652380.0	8/2/2017	ZL201710652380.0	12/1/2020	CHINA	3GPP RAN1
2791	201710651466.1	8/2/2017	ZL201710651466.1	12/10/2021	CHINA	3GPP RAN1
2792	201710685458.9	8/11/2017	ZL201710685458.9	6/4/2021	CHINA	3GPP RAN2
2793	201680044976.6	1/31/2018	ZL201680044976.6	11/17/2020	CHINA	3GPP RAN2
2794	201680044950.1	1/31/2018	ZL201680044950.1	5/18/2021	CHINA	3GPP RAN1
2795	201780009500.3	8/2/2018	ZL201780009500.3	9/6/2022	CHINA	3GPP RAN2
2796	201810251880.8	3/26/2018	ZL201810251880.8	11/1/2022	CHINA	3GPP RAN1
2797	201810372912.X	4/24/2018			CHINA	3GPP RAN2
2798	201810238760.4	3/22/2018	ZL201810238760.4	4/19/2022	CHINA	3GPP RAN2
2799	201810271091.0	3/29/2018	ZL201810271091.0	9/24/2021	CHINA	3GPP RAN1
2800	201780019501.6	9/21/2018	ZL201780019501.6	5/7/2021	CHINA	3GPP RAN2
2801	201780018639.4	9/19/2018	ZL201780018639.4	6/22/2021	CHINA	3GPP RAN2
2802	201810789449.9	7/18/2018	ZL201810789449.9	7/29/2022	CHINA	3GPP RAN2
2803	201811018440.4	9/3/2018			CHINA	3GPP RAN1
2804	201810869752.X	8/2/2018	ZL201810869752.X	9/24/2021	CHINA	3GPP RAN1
2805	201811138879.0	9/28/2018	ZL201811138879.0	11/2/2021	CHINA	3GPP RAN1
2806	201811404747.8	11/23/2018	201811404747.8	5/31/2022	CHINA	3GPP RAN1
2807	201811522932.7	12/12/2018	ZL201811522932.7	10/25/2022	CHINA	3GPP RAN2
2808	201880014755.3	8/29/2019			CHINA	3GPP RAN2
2809	201880005970.7	7/4/2019	ZL201880005970.7	12/14/2021	CHINA	3GPP RAN2
2810	201780040493.3	12/28/2018	ZL201780040493.3	6/7/2022	CHINA	3GPP RAN2
2811	201780043220.4	1/11/2019	ZL201780043220.4	3/26/2021	CHINA	3GPP RAN2
2812	201811632751.X	12/29/2018	ZL201811632751.X	7/12/2022	CHINA	3GPP RAN2
2813	201910653232.X	7/19/2019			CHINA	3GPP RAN1
2814	201910480118.1	6/4/2019	ZL201910480118.1	12/14/2021	CHINA	3GPP RAN1
2815	201910640242.X	7/16/2019			CHINA	3GPP RAN1
2816	201910822124.0	9/2/2019			CHINA	3GPP RAN2
2817	201910892164.2	9/20/2019			CHINA	3GPP RAN1
2818	201910892756.4	9/20/2019	ZL201910892756.4	8/12/2022	CHINA	3GPP RAN1
2819	201880025583.X	10/17/2019			CHINA	3GPP RAN2
2820	201911391610.8	12/30/2019			CHINA	3GPP RAN1
2821	201910877541.5	9/17/2019	ZL201910877541.5	5/31/2022	CHINA	3GPP RAN1
2822	202010010092.7	1/6/2020			CHINA	3GPP RAN1
2823	202010025017.8	1/10/2020			CHINA	3GPP RAN1
2824	202010053845.2	1/17/2020			CHINA	3GPP RAN1
2825	202010013844.5	1/7/2020			CHINA	3GPP RAN1
2826	202010222156.X	3/26/2020			CHINA	3GPP RAN1
2827	201980007401.0	7/3/2020			CHINA	3GPP RAN1
2828	201980024002.5	9/28/2020			CHINA	3GPP RAN1
2829	201980023647.7	9/29/2020			CHINA	3GPP RAN1
2830	201980031233.9	11/9/2020			CHINA	3GPP RAN1
2831	202010238560.6	3/30/2020			CHINA	3GPP RAN1
2832	202010264316.7	4/7/2020			CHINA	3GPP RAN1
2833	202010354177.7	4/29/2020			CHINA	3GPP RAN1
2834	202010588715.9	6/24/2020			CHINA	3GPP RAN1
2835	201980021358.3	9/23/2020			CHINA	3GPP RAN1
2836	201980025578.3	10/13/2020			CHINA	3GPP RAN1
2837	201980030197.4	11/4/2020			CHINA	3GPP RAN1
2838	201980013685.4	8/14/2020			CHINA	3GPP RAN2
2839	201980013687.3	8/14/2020			CHINA	3GPP RAN2
2840	201980029209.1	10/29/2020			CHINA	3GPP RAN1

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2841	201980029108.4	10/29/2020			CHINA	3GPP RAN1
2842	202010776837.0	8/5/2020			CHINA	3GPP RAN1
2843	201980032985.7	11/17/2020			CHINA	3GPP RAN1
2844	201980028674.3	10/27/2020			CHINA	3GPP RAN2
2845	201980028678.1	10/27/2020			CHINA	3GPP RAN2
2846	201980029295.6	10/30/2020			CHINA	3GPP RAN1
2847	201980058628.8	3/8/2021			CHINA	3GPP RAN1
2848	201980070591.0	4/25/2021			CHINA	3GPP RAN2
2849	201980061954.4	3/22/2021			CHINA	3GPP RAN2
2850	202011015091.8	9/24/2020			CHINA	3GPP RAN1
2851	202080049486.1	1/6/2022			CHINA	3GPP RAN1
2852	202110185284.6	2/10/2021	ZL202110185284.6	11/18/2022	CHINA	3GPP RAN2
2853	202080064306.7	3/14/2022			CHINA	
2854	202180027551.5	10/10/2022			CHINA	
2855	03806730.7	9/22/2004	ZL03806730.7	2/28/2007	CHINA	
2856	200480001550.X	6/10/2005	ZL200480001550.X	7/22/2009	CHINA	
2857	200780005534.1	8/14/2008	ZL200780005534.1	1/4/2012	CHINA	
2858	200780009797.X	9/19/2008	ZL200780009797.X	4/20/2011	CHINA	
2859	200780005431.5	8/14/2008	ZL200780005431.5	11/28/2012	CHINA	
2860	2755142	9/9/2011	2755142	4/12/2016	CANADA	WiMAX Forum
2861	0412057-4	1/10/2006	PI 0412057-4	6/12/2018	BRAZIL	
2862	PI0706535-3	7/14/2008			BRAZIL	
2863	2003225364	4/8/2003	2003225364	1/18/2007	AUSTRALIA	
2864	1-2006-00200	2/13/2006	1-0007985-000	10/5/2009	Vietnam	