

# SISVEL LTE PATENT BROCHURE

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Family	Patent Owner	Exemplary Patent	Family Members	Claim(s)	Illustrative section(s) of the standard	ETSI Declaration	Filing Date	
LTE001	Airbus DS	FR2829642		1	3GPP TS 36.211 V9.1.0: Sections 6.1, 6.1.1, 6.2, 6.2.1, 6.2.2, 6.10, 6.10.1, 6.10.1.1, 6.10.1.2, 6.10.2, 6.10.2.1, 6.10.2.2, 6.10.3, 6.10.3.1, 6.10.3.2, 6.10.4, 6.10.4.1, 6.10.4.2, 7.2; Figures 6.2.2-1, 6.10.1.2-1, 6.10.1.2-2, 6.10.2.2-1, 6.10.2.2-3, 6.10.3.2-1, 6.10.3.2-2, 6.10.3.2-3, 6.10.4.2-1, 6.10.4.2-2	ISLD-201309-002	12 Sep 2001	
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LTE002	Airbus DS	EP1364547		1	3GPP TS 36.133 v9.3.0: Section 7.6, 7.6.1, 8.1.2.2.1.1, 3GPP TS 36.211 v9.1.0: Section 5.2.1, 6.2.1, Figure 5.2.1-1 3GPP TS 36.213 v9.1.0: Section 5.1, 3GPP TS 36.214 v9.1.0: Section 5.2.2, 3GPP TS 36.300 v9.2.0: Section 10.1, 10.1.2, Figure 10.1.2.1.1-1 3GPP TS 36.321 v9.1.0: Section 5.10 3GPP TS 36.331 v9.1.0: Section 5.5.1, 6.2.2, 6.3.5, 10.2.2	ISLD-201309-002	01 Mar 2002	
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LTE003	Airbus DS	US7224683		1, 11	3GPP TS 36.300 V8.12.0: Section 4 3GPP TS 36.211 V8.9.0: Sections 4, 4.1, 4.2, 5, 5.1, 5.2, 5.2.1, 5.2.2, 5.2.3; Figures 4.1-1, 4.2-1, 5.2.1-1. 3GPP TS 36.331 V8.19.0: Sections 1, 3, 3.2, 5, 5.3, 5.3.1, 5.3.1.1, 5.3.10, 5.3.10.0, 5.3.10.1, 5.3.10.5, 6, 6.3, 6.3.2 3GPP TS 36.321 V8.12.0: Sections 5, 5.10, 5.10.2. 3GPP TS 36.213 V8.8.0: Sections 8, 8.3; Tables 8-1, 8.3-1	ISLD-201309-002	01 Aug 2000	
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LTE021	KPN	US9014667		35	3GPP TS 22.368 V10.5.0; sections 3.1, 3.2, 4, 7.1.1 and Annex A: Informative 3GPP TS 22.003 V10.10.0; section 2.1 3GPP TS 23.060 V10.14.0; sections 5.3.0, 5.3.1, 5.3.6.2.1, 5.3.6.2.2, 5.3.6.2.3, 5.3.6.2.4, 5.3.6.3, 5.3.6.4, 5.3.13.2, 5.6.3, 6.5.0, 6.8.2.2, 13.1, 13.2.1, 13.2.3, 13.4, 14.1 and 14.2 3GPP TS 24.008 V10.15.0; sections 4.1.1.7, 4.7.3.1.4 and 6.1.3.11	ISLD-201304-005 ISLD-201304-008 ISLD-201304-010 ISLD-201304-011 ISLD-201901-011 ISLD-201902-001	27 Aug 2010	
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LTE022	KPN	EP0831613		1	3GPP TR 21.905 V11.3.0: Section 3: 0-9 ETSI TS 136 212 V8.8.0: Sections 1, 5, 5.1.1, 5.1.2, 5.3.2, 5.3.2.1 ; Figure 5.3.2-1	ISLD-201203-018	21 Nov 1996
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LTE023	KPN	US6212662		1, 2, 3	3GPP TS 36.212 V9.3.0: Section 5, 5.1, 5.1.1, 5.1.2, 5.1.3, Table 5.1.3-1, 5.1.3-3, 5.1.3.2, 5.1.3.2.1, Figure 5.1.3-2, 5.1.3.2.3,	ISLD-201202-010	26 Jul 1999
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LTE024	KPN	EP2299649		1, 15	3GPP TS 23.228 V10.4.0: Sections 3.1, 4.14, 3GPP TS 24.229 V10.3.0: Sections 1, 3.2, 5.3, 5.3.2, 5.3.2.1, 5.3.2.1A, 5.4, 5.4.3.1, 5.4.3.2, 5.7, 5.7.1.3A, 5.7.1.7, 5.7.1.7.25.10, 5.10.1, 5.10.3, 5.10.3.2, 7.2A, 7.2A.6, 7.2A.6.1, 7.2A.6.3 ETSI TS 124 229 V10.3.0	ISLD-201302-007 ISLD-201302-008 ISLD-201304-014 ISLD-202004-003	16 Sep 2010
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LTE026	KPN	US8549151		1	3GPP TS 26.234 V10.5.0 Sections 5.6.1; and 5.6.2 3GPP TS 26.237 V10.8.0 Sections 4.3; Figure 3; Figure 4; 8.1; 8.2.3.1; Figure 7; 8.2.3.2; 8.2.4.1 Figure 8; 8.2.4.2; 8.2.4.3; 13; 13.1; Figure 30; 13.2; 21; 21.1.1; Figure 46; and 21.1.4 3GPP TS 26.114 V10.8.0 Sections 4.1; Figure 4.1; 6.1 and 6.2.1	ISLD-201401-007 ISLD-201911-046	22 Dec 2008	
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LTE027	KPN	EP2567564		1	3GPP TS 32.551 V11.3.1: Sections 3.1, 4.1.1 3GPP TS 36.300 V11.9.0: Sections 20.2.2.15, 22.4.4.2 3GPP TS 36.413 V11.6.0: Sections B.1.14	ISLD-201505-009	04 May 2011	
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LTE028	KPN	US8626175		1	3GPP TS 36.331 V10.15.0 Section 5.6.1; 5.6.6.2; 6.2.2; 5.6.5. 3GPP TS 32.521 V10.2.0: Section 5.1.5 and 5.4.3 3GPP TS 32.522 V10.6.0: Section 4.5.3.1 and 4.5.5 3GPP TS 37.320 V10.4.0: Annex A, Section 3.1, 4.1 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3.2 and 5.1.1.3.3; Figure 5.1.1.1-1	ISLD-201505-005	16 Dec 2010	
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	MX243041						19 Nov 2001	

LTE030	3G Licensing	JP4933528		1	3GPP TS 23.060 V8.9.0: Sections 1, 3.1, 4, 5.1, 5.2.1, 5.3.2, 5.3.2.1, 5.3.2.2, 5.4.1.1, 5.4.1.2, 9.2.1A and 9.6; Figure 1 3GPP TS 23.401 V8.10.0: Sections 3.2, 4.2.1, 4.2.2, 4.3.2.1, 4.3.2.2, 4.4.3.1, 4.4.3.2, 4.4.7.1, 4.4.7.2, 4.4.7.3, 4.7.1, 4.7.2.1 and 4.7.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1 and 4.7.2.2-1 3GPP TS 23.402 V8.6.0: Sections 1, 4.2.1, 4.2.2, 4.2.3, 4.3.1.1, 4.3.1.2, 4.3.3.1, 4.3.3.2, 4.3.3.3, 4.3.5, 4.3.5.1, 4.3.5.2, 4.8.1, 4.8.2.1, 4.10.3 and 8.5.1; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.2.2-2, 4.2.3-1, 4.2.3-2, 4.10.3-1, 4.8.1.1-1 and 8.5.1-1 3GPP TS 23.203 V8.11.0: Sections 1, 3.1, 6.1.0, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.4, 6.2.1.0, A.1.0, A.1.1.2, A.1.1.3, A.4.0, A.4.1.1, A.4.1.2, A.5.0, A.5.1.0, A.5.1.1, D.1.1, D.2, H.1 and H.2; Figures A.1, A.4, D.1.1 and D.2.1	ISLD-201211-004 ISLD-201211-006 ISLD-201211-007 ISLD-201211-008 ISLD-201607-001 ISLD-201607-002	22 Mar 2006
		EP1869840		1	3GPP TS 23.060 V8.9.0: Sections 1, 3.1, 4, 5.1, 5.2.1, 5.3.2, 5.3.2.1, 5.3.2.2, 5.4.1.1, 5.4.1.2, 9.2.1A and 9.6; Figure 1 3GPP TS 23.401 V8.10.0: Sections 3.2, 4.2.1, 4.2.2, 4.3.2.1, 4.3.2.2, 4.4.3.1, 4.4.3.2, 4.4.7.1, 4.4.7.2, 4.4.7.3, 4.7.1, 4.7.2.1 and 4.7.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1 and 4.7.2.2-1 3GPP TS 23.402 V8.6.0: Sections 1, 4.2.1, 4.2.2, 4.2.3, 4.3.1.1, 4.3.1.2, 4.3.3.1, 4.3.3.2, 4.3.3.3, 4.3.5, 4.3.5.1, 4.3.5.2, 4.8.1, 4.8.2.1, 4.10.3 and 8.5.1; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.2.2-2, 4.2.3-1, 4.2.3-2, 4.10.3-1, 4.8.1.1-1 and 8.5.1-1 3GPP TS 23.203 V8.11.0: Sections 1, 3.1, 6.1.0, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.4, 6.2.1.0, A.1.0, A.1.1.2, A.1.1.3, A.4.0, A.4.1.1, A.4.1.2, A.5.0, A.5.1.0, A.5.1.1, D.1.1, D.2, H.1 and H.2; Figures A.1, A.4, D.1.1 and D.2.1	ISLD-201211-004 ISLD-201211-006 ISLD-201211-007 ISLD-201211-008 ISLD-201607-001 ISLD-201607-002	22 Mar 2006
		CNZL200680017858.2		1	3GPP TS 23.060 V8.9.0: Sections 1, 3.1, 4, 5.1, 5.2.1, 5.3.2, 5.3.2.1, 5.3.2.2, 5.4.1.1, 5.4.1.2, 9.2.1A and 9.6; Figure 1 3GPP TS 23.401 V8.10.0: Sections 3.2, 4.2.1, 4.2.2, 4.3.2.1, 4.3.2.2, 4.4.3.1, 4.4.3.2, 4.4.7.1, 4.4.7.2, 4.4.7.3, 4.7.1, 4.7.2.1 and 4.7.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1 and 4.7.2.2-1 3GPP TS 23.402 V8.6.0: Sections 1, 4.2.1, 4.2.2, 4.2.3, 4.3.1.1, 4.3.1.2, 4.3.3.1, 4.3.3.2, 4.3.3.3, 4.3.5, 4.3.5.1, 4.3.5.2, 4.8.1, 4.8.2.1, 4.10.3 and 8.5.1; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.2.2-2, 4.2.3-1, 4.2.3-2, 4.10.3-1, 4.8.1.1-1 and 8.5.1-1 3GPP TS 23.203 V8.11.0: Sections 1, 3.1, 6.1.0, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.4, 6.2.1.0, A.1.0, A.1.1.2, A.1.1.3, A.4.0, A.4.1.1, A.4.1.2, A.5.0, A.5.1.0, A.5.1.1, D.1.1, D.2, H.1 and H.2; Figures A.1, A.4, D.1.1 and D.2.1	ISLD-201211-004 ISLD-201211-006 ISLD-201211-007 ISLD-201211-008 ISLD-201607-001 ISLD-201607-002	22 Mar 2006
		CNZL201210078576.0					22 Mar 2006
		EP1869840(DE)					22 Mar 2006
		EP1869840(ES)					22 Mar 2006
		EP1869840(FR)					22 Mar 2006
		EP1869840(GB)					22 Mar 2006
		EP1869840(IE)					22 Mar 2006
		EP1869840(IT)					22 Mar 2006
		EP1869840(NL)					22 Mar 2006
		EP1869840(PL)					22 Mar 2006
		EP1869840(TR)					22 Mar 2006
	US8570936					22 Mar 2006	
	US9813940					22 Mar 2006	
LTE031	3G Licensing	US8565159		1	3GPP TS 23.060 V8.15.0: Sections 1, and 4 3GPP TS 23.327 V8.4.0: Sections 1, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, and 6.3.2.2 and Figures 5.2.1-1, 6.1, 6.3.1-1, and 6.3.2.2-1; 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, and 6.2.6, and Figure 6.2a	ISLD-201211-009 ISLD-201211-010 ISLD-201211-011 ISLD-201607-001 ISLD-201607-002	15 Jan 2007
		US8194608		1	3GPP TS 23.060 V8.15.0: Sections 1, and 4 3GPP TS 23.327 V8.4.0: Sections 1, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, and 6.3.2.2 and Figures 5.2.1-1, 6.1, 6.3.1-1, and 6.3.2.2-1; 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, and 6.2.6, and Figure 6.2a	ISLD-201211-009 ISLD-201211-010 ISLD-201211-011 ISLD-201607-001 ISLD-201607-002	15 Jan 2007

LTE031	3G Licensing	CNZL200780009678.4		1	3GPP TS 23.060 V8.15.0: Sections 1, and 4 3GPP TS 23.327 V8.4.0: Sections 1, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, and 6.3.2.2 and Figures 5.2.1-1, 6.1, 6.3.1-1, and 6.3.2.2-1; 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, and 6.2.6, and Figure 6.2a	ISLD-201211-009 ISLD-201211-010 ISLD-201211-011 ISLD-201607-001 ISLD-201607-002	15 Jan 2007	
			EP1974576(DE)				15 Jan 2007	
			EP1974576(ES)				15 Jan 2007	
			EP1974576(FR)				15 Jan 2007	
			EP1974576(GB)				15 Jan 2007	
			EP1974576(IT)				15 Jan 2007	
			EP2958292(DE)				15 Jan 2007	
			EP2958292(ES)				15 Jan 2007	
			EP2958292(FR)				15 Jan 2007	
			EP2958292(GB)				15 Jan 2007	
			EP2958292(IT)				15 Jan 2007	
			EP2958292(NL)				15 Jan 2007	
				HK1219367				15 Jan 2007
LTE032	3G Licensing	US8971246		1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1, and 5.10.2 and Figures 4.2.1-1, 4.2.1-2 and 4.7.2.2-1	ISLD-201211-012 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	
		US8072923		1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1, and 5.10.2 and Figures 4.2.1-1, 4.2.1-2 and 4.7.2.2-1	ISLD-201211-012 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	
		JP5491650		1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1, and 5.10.2 and Figures 4.2.1-1, 4.2.1-2 and 4.7.2.2-1	ISLD-201211-012 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	
		JP5384934		1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1, and 5.10.2 and Figures 4.2.1-1, 4.2.1-2 and 4.7.2.2-1	ISLD-201211-012 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	
		CNZL200680016492.7		1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1, and 5.10.2 and Figures 4.2.1-1, 4.2.1-2 and 4.7.2.2-1	ISLD-201211-012 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	
			CNZL201110148681.2					23 Mar 2006
			EP1861981(DE)					23 Mar 2006
			EP1861981(FR)					23 Mar 2006
			EP1861981(GB)					23 Mar 2006
			EP1861981(IT)					23 Mar 2006
		EP1861981(NL)				23 Mar 2006		
LTE033	3G Licensing	US9001732		1	3GPP TS 23.060 V8.9.0: subclauses 4, 9.2.1A, 9.2.2.1; and Figs 63 and 64 3GPP TS 23.401 V8.15.0: subclauses 1.3.1, 4.1, 4.2.1, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1; and Fig 4.2.1-2, and Fig 4.7.2.2-1 3GPP TS 24.008 V8.10.0: subclauses 10.5.6.4; Fig 10.5.137; and Table 10.5.155	ISLD-201211-013 ISLD-201211-014 ISLD-201211-015 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	
		US8064384		1	3GPP TS 23.060 V8.9.0: subclauses 4, 9.2.1A, 9.2.2.1; and Figs 63 and 64 3GPP TS 23.401 V8.15.0: subclauses 1.3.1, 4.1, 4.2.1, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1; and Fig 4.2.1-2, and Fig 4.7.2.2-1 3GPP TS 24.008 V8.10.0: subclauses 10.5.6.4; Fig 10.5.137; and Table 10.5.155	ISLD-201211-013 ISLD-201211-014 ISLD-201211-015 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	
		JP4970422		1	3GPP TS 23.060 V8.9.0: subclauses 4, 9.2.1A, 9.2.2.1; and Figs 63 and 64 3GPP TS 23.401 V8.15.0: subclauses 1.3.1, 4.1, 4.2.1, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1; and Fig 4.2.1-2, and Fig 4.7.2.2-1 3GPP TS 24.008 V8.10.0: subclauses 10.5.6.4; Fig 10.5.137; and Table 10.5.155	ISLD-201211-013 ISLD-201211-014 ISLD-201211-015 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	

LTE033	3G Licensing	CNZL200680017166.8		1	3GPP TS 23.060 V8.9.0: subclauses 4, 9.2.1A, 9.2.2.1; and Figs 63 and 64 3GPP TS 23.401 V8.15.0: subclauses 1.3.1, 4.1, 4.2.1, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1; and Fig 4.2.1-2, and Fig 4.7.2.2-1 3GPP TS 24.008 V8.10.0: subclauses 10.5.6.4; Fig 10.5.137; and Table 10.5.155	ISLD-201211-013 ISLD-201211-014 ISLD-201211-015 ISLD-201607-001 ISLD-201607-002	23 Mar 2006	
			EP1861982(BE)				23 Mar 2006	
			EP1861982(CH)				23 Mar 2006	
			EP1861982(DE)				23 Mar 2006	
			EP1861982(ES)				23 Mar 2006	
			EP1861982(FR)				23 Mar 2006	
			EP1861982(GB)				23 Mar 2006	
			EP1861982(IT)				23 Mar 2006	
			EP1861982(NL)				23 Mar 2006	
			EP1861982(PL)				23 Mar 2006	
EP1861982(SE)				23 Mar 2006				
EP1861982(TR)				23 Mar 2006				
LTE034	3G Licensing	US8179888		1	3GPP TS 29.060 V8.3.0: section 3.1 3GPP TS 23.401 V8.10.0: sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, and 5.1.2.5-1 3GPP TS 29.061 V8.6.0: sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4, 11.2.1.3.1, 11.3, figures 11c, 11d, 11e, 11bb and 11ba 3GPP TS 23.060 V8.10.0: sections 9.2.2, 9.2.2.1, 9.2.2.1A, 14.5, figures 63 and 64	ISLD-201308-022 ISLD-201308-023 ISLD-201308-024 ISLD-201607-001 ISLD-201607-002	11 Jul 2005	
			EP1772030		1	3GPP TS 29.060 V8.3.0: section 3.1 3GPP TS 23.401 V8.10.0: sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, and 5.1.2.5-1 3GPP TS 29.061 V8.6.0: sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4, 11.2.1.3.1, 11.3, figures 11c, 11d, 11e, 11bb and 11ba 3GPP TS 23.060 V8.10.0: sections 9.2.2, 9.2.2.1, 9.2.2.1A, 14.5, figures 63 and 64	ISLD-201308-022 ISLD-201308-023 ISLD-201308-024 ISLD-201607-001 ISLD-201607-002	11 Jul 2005
			CNZL200580025881.1		1	3GPP TS 29.060 V8.3.0: section 3.1 3GPP TS 23.401 V8.10.0: sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, and 5.1.2.5-1 3GPP TS 29.061 V8.6.0: sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4, 11.2.1.3.1, 11.3, figures 11c, 11d, 11e, 11bb and 11ba 3GPP TS 23.060 V8.10.0: sections 9.2.2, 9.2.2.1, 9.2.2.1A, 14.5, figures 63 and 64	ISLD-201308-022 ISLD-201308-023 ISLD-201308-024 ISLD-201607-001 ISLD-201607-002	11 Jul 2005
			EP1772030(DE)				11 Jul 2005	
			EP1772030(ES)				11 Jul 2005	
			EP1772030(FR)				11 Jul 2005	
			EP1772030(GB)				11 Jul 2005	
			EP1772030(IT)				11 Jul 2005	
			IN271359				11 Jul 2005	
US10200511				11 Jul 2005				
US9237058				11 Jul 2005				
LTE035	3G Licensing	US7860073		1	3GPP TS 29.060 V8.3.0: section 3.1 3GPP TS 23.401 V8.10.0: sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, and 5.1.2.5-1 3GPP TS 29.061 V8.6.0: sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4, 11.2.1.3.1, 11.3, figures 11c, 11d, 11e, 11bb and 11ba 3GPP TS 23.060 V8.10.0: sections 9.2.2, 9.2.2.1, 9.2.2.1A, 14.5, figures 63 and 64	ISLD-201308-025 ISLD-201308-026 ISLD-201308-027 ISLD-201308-028 ISLD-201607-001 ISLD-201607-002	10 Jun 2005	
			EP1771978		1	3GPP TS 29.060 V8.3.0: section 3.1 3GPP TS 23.401 V8.10.0: sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, and 5.1.2.5-1 3GPP TS 29.061 V8.6.0: sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4, 11.2.1.3.1, 11.3, figures 11c, 11d, 11e, 11bb and 11b 3GPP TS 23.060 V8.10.0: sections 9.2.2, 9.2.2.1, 9.2.2.1A, 14.5, figures 63 and 64	ISLD-201308-025 ISLD-201308-026 ISLD-201308-027 ISLD-201308-028 ISLD-201607-001 ISLD-201607-002	10 Jun 2005



LTE035	3G Licensing	CNZL200580024907.0		1	3GPP TS 29.060 V8.3.0: section 3.1 3GPP TS 23.401 V8.10.0: sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, and 5.1.2.5-1 3GPP TS 29.061 V8.6.0: sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4, 11.2.1.3.1, 11.3, figures 11c, 11d, 11e, 11bb and 11ba 3GPP TS 23.060 V8.10.0: sections 9.2.2, 9.2.2.1, 9.2.2.1A, 14.5, figures 63 and 64	ISLD-201308-025 ISLD-201308-026 ISLD-201308-027 ISLD-201308-028 ISLD-201607-001 ISLD-201607-002	10 Jun 2005	
			EP1771978(CH)			10 Jun 2005		
			EP1771978(DE)			10 Jun 2005		
			EP1771978(ES)			10 Jun 2005		
			EP1771978(FR)			10 Jun 2005		
			EP1771978(GB)			10 Jun 2005		
			EP1771978(IT)			10 Jun 2005		
		IN272738				10 Jun 2005		
LTE036	3G Licensing	EP1741264		1	3GPP TS 29.060 V8.11.0 Sections 3.1, 4.1, Figure 1 3GPP TS 23.401 V8.8.0 Sections 5.1, 5.1.1.1, 5.1.1.4, Figure 5.1.1.4-1, 5.1.1.5, Figure 5.1.1.5-1, 5.1.1.6, Figure 5.1.1.6-1, 5.1.1.7, Figure 5.1.1.7-1, 5.1.1.8, Figure 5.1.1.8-1, 5.1.2.1, Figure 5.1.2.1-1, 5.1.2.2, Figure 5.1.2.2-1, 5.1.2.3, Figure 5.1.2.3-1, 5.1.2.4, Figure 5.1.2.4-1, 5.1.2.5, Figure 5.1.2.5-1 3GPP TS 23.402 V8.8.0 Sections 1, 4.2.2, Figure 4.2.2-2, 4.3.3.2, 4.3.3.3, 4.3.4, 5.1.2, 5.1.4.1, Figure 5.1.4-1, 5.1.4.2, Figure 5.1.4.2-1, 5.1.4.3, Figure 5.1.4.3-1, 5.1.4.4, Figure 5.1.4.4-1, 5.1.3.1, Figure 5.1.3.1-1, 6.1.2, Figure 6.1.2-1, Annex A, A.1, Figure A.1-1, Figure A.1-2, Figure A.1-3, A2, Figure A.2-1 3GPP TS 23.228 V8.9.0 Sections 4.6.0, 4.6.1, 5.4.2a, Figure 5.5b, E0, E5 3GPP TS 23.060 V8.7.0 Sections 4, 5.3.2.4, 5.3.2.5, 5.5, Table 1, 5.6.2.1, 5.6.2.2, Figure 6a, Figure 6b, Figure 6c, Figure 6d, 5.6.3, 5.6.3.1, Figure 7, 5.6.3.2, Figure 8, 9.2.1, 9.2.2.1, Figure 63, Figure 64	ISLD-201010-005 ISLD-201010-006 ISLD-201010-007 ISLD-201010-008 ISLD-201010-009 ISLD-201308-012 ISLD-201308-013 ISLD-201308-014 ISLD-201308-015 ISLD-201308-016 ISLD-201607-001 ISLD-201607-002	19 Apr 2005	
			CNZL200580020466.7		1	3GPP TS 29.060 V8.11.0: Sections 3.1, 4.1, Figure 1 3GPP TS 23.401 V8.8.0: Sections 5.1, 5.1.1.1, 5.1.1.4, Figure 5.1.1.4-1, 5.1.1.5, Figure 5.1.1.5-1, 5.1.1.6, Figure 5.1.1.6-1, 5.1.1.7, Figure 5.1.1.7-1, 5.1.1.8, Figure 5.1.1.8-1, 5.1.2.1, Figure 5.1.2.1-1, 5.1.2.2, Figure 5.1.2.2-1, 5.1.2.3, Figure 5.1.2.3-1, 5.1.2.4, Figure 5.1.2.4-1, 5.1.2.5, Figure 5.1.2.5-1 3GPP TS 23.402 V8.8.0: Sections 1, 4.2.2, Figure 4.2.2-2, 4.3.3.2, 4.3.3.3, 4.3.4, 5.1.2, 5.1.4.1, Figure 5.1.4-1, 5.1.4.2, Figure 5.1.4.2-1, 5.1.4.3, Figure 5.1.4.3-1, 5.1.4.4, Figure 5.1.4.4-1, 5.1.3.1, Figure 5.1.3.1-1, 6.1.2, Figure 6.1.2-1, Annex A, A.1, Figure A.1-1, Figure A.1-2, Figure A.1-3, A2, Figure A.2-1 3GPP TS 23.228 V8.9.0: Sections 4.6.0, 4.6.1, 5.4.2a, Figure 5.5b, E0, E5 3GPP TS 23.060 V8.7.0: Sections 4, 5.3.2.4, 5.3.2.5, 5.5, Table 1, 5.6.2.1, 5.6.2.2, Figure 6a, Figure 6b, Figure 6c, Figure 6d, 5.6.3, 5.6.3.1, Figure 7, 5.6.3.2, Figure 8, 9.2.1, 9.2.2.1, Figure 63, Figure 64	ISLD-201010-005 ISLD-201010-006 ISLD-201010-007 ISLD-201010-008 ISLD-201010-009 ISLD-201308-012 ISLD-201308-013 ISLD-201308-014 ISLD-201308-015 ISLD-201308-016 ISLD-201607-001 ISLD-201607-002	19 Apr 2005
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LTE037	3G Licensing	US7995523		1, 12	3GPP TS 23.401 V8.17.0: Sections 1, 4.2.1, 4.2.3, 4.7.1, 4.7.2.1, 4.7.2.2 and 5.4.5; Figures 4.2.1-1 and 5.4.5-1 3GPP TS 24.303 V8.9.0: Sections 1, 4.1, 5.1.1, 5.1.2.3 and 5.1.2.4 IETF RFC 6275: included by reference in TS 24.303 V8.9.0: Abstract, Sections 10.4.1, 10.4.2 and 11.7.1	ISLD-201511-018 ISLD-201607-001	24 Sep 2003	
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LTE037	3G Licensing				EP1543666(FR)			24 Sep 2003
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					EP1667384(IT)			24 Sep 2003
					JP4426451			24 Sep 2003
					JP4834133			24 Sep 2003
					US8611296			24 Sep 2003
			US9949238			24 Sep 2003		
LTE039	3G Licensing	JP5248586		1	3GPP TS 23.401 V8.10.0: Section 4.2.2, and Figure 4.2.2-3 3GPP TS 23.060 V8.9.0: Sections 9.2.2 and 9.2.2.1, and Figures 63 and 64 3GPP TS 24.008 V8.10.0: Section 10.5.6.4, and Figure 10.5.137, and Table 10.5.155 3GPP TS 29.061 V8.7.0: Section 11.2.1.4, and Figures 11c, 11d, and 11e 3GPP TS 23.228 V8.12.0: Section 3.1, and Annex I.1, I.2, I.3, I.3.1, and I.3.1.2, and Figures I.1 and I.3 IETF RFC 3344: 2002-08: included by reference in TS 29.061: Sections 1.5, 1.7 and 3	ISLD-201109-013 ISLD-201109-014 ISLD-201109-015 ISLD-201109-016 ISLD-201109-017 ISLD-201308-007 ISLD-201308-008 ISLD-201308-009 ISLD-201308-010 ISLD-201607-001 ISLD-201607-002	10 Mar 2004	
		EP1602215		1	3GPP TS 23.401 V8.10.0: Section 4.2.2, and Figure 4.2.2-3 3GPP TS 23.060 V8.9.0: Sections 9.2.2 and 9.2.2.1, and Figures 63 and 64 3GPP TS 24.008 V8.10.0: Section 10.5.6.4, and Figure 10.5.137, and Table 10.5.155 3GPP TS 29.061 V8.7.0: Section 11.2.1.4, and Figures 11c, 11d, and 11e 3GPP TS 23.228 V8.12.0: Section 3.1, and Annex I.1, I.2, I.3, I.3.1, and I.3.1.2, and Figures I.1 and I.3 IETF RFC 3344: 2002-08: included by reference in TS 29.061: Sections 1.5, 1.7 and 3	ISLD-201109-013 ISLD-201109-014 ISLD-201109-015 ISLD-201109-016 ISLD-201109-017 ISLD-201308-007 ISLD-201308-008 ISLD-201308-009 ISLD-201308-010 ISLD-201607-001 ISLD-201607-002	10 Mar 2004	
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			KR101007005					10 Mar 2004
			US7640017					10 Mar 2004
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LTE041	3G Licensing	EP1838044		20	3GPP TS 23.327 V8.4.0: Sections 1, 3.2, 4.2, 5, 5.2.1, 5.3.1, 5.3.2, 5.4, 5.5, 6.1, 6.3.1 and 6.3.2.2; Figures 5.2.1-1, 6.1, 6.3.1-1 and 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 2, 3.2, 5.7.1, 5.13.1, 5.13.2, 6.1.1, 6.2.1, 6.2.5, 6.2.6 and H.4; Figure 6.1 3GPP TS 23.107 V8.2.0: Section 6.3	ISLD-201308-032 ISLD-201308-033 ISLD-201308-034 ISLD-201607-001 ISLD-201607-002	24 Mar 2006	
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			EP1838044(IT)					24 Mar 2006
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	JP6063998					24 Mar 2006		
		US9413681				24 Mar 2006		
LTE042	3G Licensing	US8184646		18	3GPP TS 23.401 V8.18.0, Section 3.1, 4.3.3, 4.3.3.1, 4.3.5, 4.3.5.1, 4.3.5.2, 4.7, 4.7.1, 5.1.2, 5.1.2.1, 5.3.2 and 5.3.2.1, Figure 5.1.2.1-1 3GPP TS 24.301 V8.10.0, Section 4.2, 8.3.8, 8.3.8.1, 9.9.4.3 and 9.9.4.3, Figure 9.9.4.3.1, Table 8.3.8.1 3GPP TS 23.002 V8.6.0, Section 3.1, 4.1.4, 4.1.4.1, 4.1.4.2, 4.1.4.2.1 and 4.1.4.2.2 3GPP TS 23.203 V8.14.0, Section 3.1, 6.1.7 and 6.1.7.2	ISLD-201211-019 ISLD-201211-020 ISLD-201211-021 ISLD-201607-001 ISLD-201607-002	19 Mar 2007	
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			IN282457				19 Mar 2007	
	JP5740672				19 Mar 2007			
		US9166824				19 Mar 2007		
LTE044	3G Licensing	US6856818		18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 ETSI TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K and K.2; Figure 8.2, 8.4 and K.1 ; Tables 8.1 and 11.11	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	19 Jan 1998	
		JP4357596		18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29 ; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 3GPP TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K and K.2; Figure 8.2, 8.4 and K.1 ; Table 8.1 and 11.11	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	19 Jan 1998	
		IN208486		18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 ETSI TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K and K.2; Figure 8.2, 8.4 and K.1 ; Tables 8.1 and 11.11	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	19 Jan 1998	
		EP0960542		18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1, 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	19 Jan 1998	

LTE044	3G Licensing	CNZL98802464.0		18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 ETSI TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K and K.2; Figure 8.2, 8.4 and K.1 ; Tables 8.1 and 11.11	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	19 Jan 1998	
		CA2280150		18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 ETSI TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K and K.2; Figure 8.2, 8.4 and K.1 ; Tables 8.1 and 11.11	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	19 Jan 1998	
		AU729163		18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 ETSI TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K and K.2; Figure 8.2, 8.4 and K.1 ; Tables 8.1 and 11.11	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	19 Jan 1998	
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			EP0960542(GB)					19 Jan 1998
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		GB2322045					11 Feb 1997	
LTE045	3G Licensing	US7102663		1	3GPP TS 23.060 V8.9.0 Sections 5.1, Figure 1, 5.3.8 and Figure 72b. 3GPP TS 23.228 V8.12.0 Sections 4.0, 4.16.1, 4.16.2, 5.4.4. Annex E, E.0, E.2.1a.1, E.2.1a.2, E.2.4.0, E.2.4.1, Figure E 3GPP TS 23.401 V8.17.0 Sections 4.7.1, 4.7.2.2, and Figure 4.7.2.2-1	ISLD-201308-029 ISLD-201308-030 ISLD-201308-031 ISLD-201607-001 ISLD-201607-002	16 Oct 2001	
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LTE049	Sisvel International	EP0852885		12	3GPP TS23.401 V8.18.0: Sections 4.7, 4.7.1, 4.7.2, 4.7.2.1, 5.4, 5.4.1, 5.7, 5.7.1; Tables 5.4.1-1, 5.7.1-1	ISLD-201106-009 ISLD-201305-003	25 Sep 1996	
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LTE050	Sisvel International	US7957736		9	3GPP TS 23.003 v 8.17.0 : Sections 2.8.1 3GPP TS 23.401 v 8.18.0: Sections 5.3.2.1 3GPP TS 24.301 v 8.10.0: Sections 5.4.1.2, 8.2.4.1; Table 8.2.4.1	ISLD-201305-003	05 Oct 1999
		EP1119997		15	3GPP TS 23.003 V8.17.0: Sections 2.1, 2.8, 2.8.1 3GPP TS 23.401 V8.18.0: Section 5.3.7; Figure 5.3.7-1	ISLD-201305-003	05 Oct 1999
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LTE051	Sisvel International	US7580714		1	3GPP TS 23.401 V8.18.0: Sections 5.3.2, 5.3.2.1, 5.3.5.1; Figures 5.3.2.1-1, 5.3.5.1-1	ISLD-200812-008 ISLD-201804-019	13 Oct 2000
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LTE051	Sisvel International		US7979070				13 Oct 2000		
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LTE052	Sisvel International	US7283499		1	3GPP TS 36.201 V8.3.0: Sections 4.1.2, 4.2.1 3GPP TS 36.212 V8.8.0: Sections 4.2, 5, 5.3.2; Figure 5.3.2-1 3GPP TS 36.213 V8.8.0: Sections 7.2, 7.2.1, 7.2.2, 7.2.3, 7.2.4; Table: 7.2.3-1	ISLD-200811-005 ISLD-201305-003	15 Oct 2004		
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		LTE054	Sisvel International	US7599384		17	3GPP TS 24.301 V8.10.0: Sections 4.2, 6.1.1, 6.4.1.1, 6.4.3.1, 6.4.3.2, 6.4.3.3, 6.4.3.4, 6.5.3.1, 8.3.18.1, 9.3.2, 9.9.4.3; Figure 6.4.3.2.1; Tables 8.3.18.1	ISLD-201305-003	31 Aug 1998
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LTE057	Sisvel International			US7894443		16	3GPP TS 36.322 v10.0.0: Sections 4.1, 4.2.1, 6.2, 6.2.1.1, 6.2.1.3, 6.2.1.4, 6.2.1.5, 6.2.2.1, 6.2.2.2, 6.2.2.5, 6.2.2.6; Figures 4.2.1-1, 6.2.1.3-3, 6.2.1.3-4, 6.2.1.3-5, 6.2.1.3-6, 6.2.1.4-2, 6.2.1.4-3, 6.2.1.5-1, 6.2.1.5-2, 6.2.1.5-3; Table 6.2.2.6-1	ISLD-200806-005 ISLD-201305-003 ISLD-201906-013	22 Aug 2006
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LTE058	KPN	EP0716796		1, 3	3GPP TS 23.261 V10.2.0: Sections 4, 4.1, 5.2, 5.2.1, 5.2.2, 5.2.3, 5.3, 5.3.1, 5.3.2, 5.3.3 3GPP TS 23.401 V10.4.0: Sections 1, 5, 5.1, 5.1.1, 5.1.1.1, 5.2, 5.2.1, 5.2.2, 5.2.3, 5.3, 5.3.1, 5.3.1.1, 5.3.2, 5.3.2.1, 5.10, 5.10.1, 5.10.2 3GPP TS 23.402 V10.4.0: Sections 7.3 3GPP TS 23.234 V11.1.0: Sections 6, 6.1 3GPP TS 23.003 V10.3.0: Sections 2, 2.1 IETF RFC 4306: Sections 1.2 Claim 3: same as Claim 3: 3GPP TS 23.261 V10.2.0: Sections 4, 4.1, 5.2, 5.2.1, 5.2.2, 5.2.3, 5.3, 5.3.1, 5.3.2, 5.3.3 3GPP TS 23.401 V10.4.0: Sections 1, 5, 5.1, 5.1.1, 5.1.1.1, 5.2, 5.2.1, 5.2.2, 5.2.3, 5.3, 5.3.1, 5.3.1.1, 5.3.2, 5.3.2.1, 5.10, 5.10.1, 5.10.2 3GPP TS 23.402 V10.4.0: Sections 7.3 3GPP TS 23.234 V11.1.0: Sections 6, 6.1 3GPP TS 23.003 V10.3.0: Sections 2, 2.1 IETF RFC 4306: Sections 1.2	ISLD-201203-015	31 Aug 1994	
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LTE059	3G Licensing	EP1869841		1	3GPP TS 23.060 V8.7.0: sections 9.2.1A; 9.2.1.1; 9.2.2.1; 9.2.2.1.1; 15.3.0; 15.3.1; Figures 63; 64 3GPP TS 23.207 V8.0.0: sections 4.2; 4.7; 5.1; 5.2; 5.2.1; 5.2.2; 6.1; 6.1.1; 6.1.2; 6.4; Figures; Annex A: A.2; A.2.5; Annex C; Figure A.7 3GPP TS 23.228 V8.12.0: sections 4.0; 4.2.4; 4.2.4a; 4.6.0; 4.6.1; 4.6.3; 5.4.0; 5.4.2a; Figures 4.0; 5.5b; Annex E: E.0; E.5 3GPP TS 23.401 V8.8.0: sections 1; 4.2.1; 4.2.2; 4.4.4; Figures 4.2.1-1; 4.2.1-2; 4.2.2-1; 4.2.2-2, 4.2.2-3 3GPP TS 24.008 V9.3.0: sections 9.5.4; 9.5.4.1; 10.5.6.12; tables 9.5.4; 10.5.162 3GPP TS 24.229 V8.11.0: Annex B: B.1; B.2.1; B.2.2.1; B.2.2.5.1; B.2.2.5.1A; B.2.2.5.1B 3GPP TS 29.060 V9.3.0: section 7.7.36	ISLD-201011-005 ISLD-201011-006 ISLD-201011-007 ISLD-201011-008 ISLD-201011-009 ISLD-201011-010 ISLD-201308-017 ISLD-201308-018 ISLD-201308-019 ISLD-201308-020 ISLD-201308-021 ISLD-201607-001 ISLD-201607-002	22 Mar 2006	
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LTE063	3G Licensing	US7933564		1	3GPP TS 36.211 V10.7.0: Sections 6.3, 6.3.2, 6.3.3, 6.3.3.3, 6.3.4, 6.3.4.3; Figure 6.3-1; Table 6.3.3.3-1	ISLD-201607-001	02 Dec 2004
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LTE064	KPN	US9667669		1, 15, 16	3GPP TS 24.371 V12.6.0: Sections 1, 2, 4, 4.1, 5D.1, 5D.2, 7.1 3GPP TS 23.228 V12.0.0: Sections 4.6.1; Annex U.1.2, U.1.3.1U.1.3.3, U.2.2	ISLD-201603-006 ISLD-201911-024	19 Jan 2010
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LTE065	3G Licensing	EP2597926		9	3GPP TS 23.401 V8.15.0: Sections 4.3.2.2,4.7.5, 5.3.2.1, Fig. 5.3.2.1-1, 5.4.1, and Fig.5.4.1-1 3GPP TS 23.203 V8.14.0: Sections 3.1, 4.1,and 5.2.2 3GPP TS 29.212 V8.15.0: Section 4.5.1	ISLD-201511-021 ISLD-201511-022 ISLD-201511-023 ISLD-201607-001 ISLD-201607-002	09 Oct 2008
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LTE071	KPN	EP0785692		1	3GPP TS 23.261 V10.2.0: Sections 5.3.1, 5.4.1 and 5.4.2; Figure 5.4.2-1 3GPP TS 24.312 V10.7.0: Section 4.1.1 3GPP TS 36.304 V10.8.0: Section 7.1 3GPP TS 23.401 v10.13.0: Section 5.13	ISLD-201507-025	29 Oct 1996
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LTE072	Orange	EP1362447	1	3GPP TS 36.300 V11.10.0: Sections 3, 3.2, 5, 5.1, 5.1.5 3GPP TS 36.212 V10.8.0: Sections 4, 4.2, 5, 5.1, 5.1.3, 5.1.4, 5.1.4.1, 5.1.5, 5.3, 5.3.2, 5.3.2.3, 5.3.2.4, 5.3.2.5 3GPP TS 36.211 V10.7.0: Sections 3, 3.1, 6, 6.1, 6.1.1, 6.2, 6.2.1, 6.2.2, 6.3, 6.3.1, 6.3.2, 6.3.3, 6.3.3.2, 6.3.4, 6.3.4.2, 6.3.4.2.1, 6.3.4.2.2, 6.3.4.2.3, 6.3.5, 6.4 3GPP TS 36.201 V10.0.0: Sections 4, 4.2, 4.2.3		14 Feb 2002
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KR100874059				14 Feb 2002		
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LTE073	MELCO	JP4814388	1	3GPP TS 36.212	ISLD-202006-006	23 Jul 2010
LTE075	MELCO	CNZL200480021840.0	3	3GPP TS 36.211 3GPP TS 36.212 3GPP TS 36.213 3GPP TS 36.321	ISLD-202006-006	29 Jul 2004
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LTE076	MELCO	JP4097129	1	3GPP TS 36.211 3GPP TS 36.212 3GPP TS 38.213	ISLD-202006-006	08 Aug 2002
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LTE077	MELCO	US9635656	3	3GPP TS 36.213 V9.0.1: Sections 7.2, 7.2.2 3GPP TS 36.201 V9.0.0: Section 5.5 3GPP TS 36.321 V9.1.0: Section 5.4.4	ISLD-202006-006	27 Dec 2006
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LTE078	MELCO	CNZL200780053418.7		13	3GPP TS 36.211 3GPP TS 36.213	ISLD-202006-006	27 Dec 2007	
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LTE079	MELCO	JP4841630		2	3GPP TS 36.213 V9.0.1: Sections 7.2, 10.1	ISLD-202006-006	30 Jul 2014	
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LTE080	MELCO	JP4637848		11	3GPP TS 36.321 V10.4.0 Section 5.4.3.2, 5.4.5, 6.1.2, 6.1.3.1	ISLD-202006-006	08 Sep 2004	
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LTE081	MELCO	JP4902592		1	3GPP TS 36.211 3GPP TS 36.212 3GPP TS 38.213	ISLD-202006-006	09 May 2008	
			JP5037706				11 Mar 2011	
LTE082	MELCO	US9113445		1	3GPP TS 36.300 V10.6.0: Sections 6, 6.1, 6.1.2, 11.3; Figure 6-2 3GPP TS 36.306 V10.4.0: Sections 4, 4.1, 4.2.5; Table 4.1-3 3GPP TS 36.321 V10.4.0: Sections 5.4.3.1, 5.4.3.2, 5.4.5, 6.1.2, 6.1.3.1; Figure 6.1.2-3; Tables 6.1.3.1-1, 6.1.3.1-2 3GPP TS 36.322 V10.0.0: Sections 4.2.1, 4.2.1.1.1, 4.2.1.2.1, 4.2.1.3.1, 4.5; Figures 4.2.1-1, 4.2.1.1.1-1, 4.2.1.2.1-1, 4.2.1.3.1-1 3GPP TS 36.331 V10.6.0: Sections 5.6.3.1, 5.6.3.3, 6.3.6; Figure 5.6.3.1-1	ISLD-202006-006	30 Apr 2004	
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LTE083	MELCO	JP5550697	1	3GPP TS 36.300 V8.7.1 Sections 11.1.1, 11.1.2 3GPP TS 36.321 V8.4.0 Sections 5.10, 5.10.1, 5.10.2 3GPP TS 36.213 V8.6.0 Section 9.2	ISLD-202006-006	12 Oct 2012
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LTE084	MELCO	US9713068	3	3GPP TS 24.301 V11.0.0: Sections 3.1, 3.2, 5.1.1, 5.1.3.2.2.4, 5.3.5, 5.5.3.1, 5.5.3.2.1, 5.5.3.2.2 3GPP TS 23.401 V11.0.0: Sections 4, 4.1, 4.2, 4.2.1, 4.2.2, 4.3.5.2, 4.3.5.3, 5.3.3, 5.3.3.0, 5.3.3.2, 5.3.3.2.4; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.2.2-2, 4.2.2-3, 5.3.3.2-1 3GPP TS 36.300 V11.0.0: Sections 4, 4.1, ; Figure 4-1	ISLD-202006-006	26 Oct 2009
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RU2599542				06 May 2015		
US9877268				23 Jul 2015		
LTE085	MELCO	US10165482	3	3GPP TS 36.300 V10.3.0: Sections 1, 3.2, 4, 4.1, 4.2.1, 4.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.2.2-2, 4.2.2-3 3GPP TS 24.301 V10.2.0: Sections 1, 5.5.3.1, 5.5.3.2.1, 5.5.3.2.2, 5.5.3.2.4, 8.1, 8.2.26.1, 8.2.26.2, 8.2.26.15; Tanle 8.2.26.1	ISLD-202006-006	14 Feb 2017
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		CNZL201510306774.1				05 Jun 2015

LTE085	MELCO		IN349152				15 Sep 2010
			JP5683474				15 Sep 2010
			JP5905533				11 Jul 2014
			JP6219429				16 Mar 2016
			US8626163				15 Sep 2010
			US9615310				25 Nov 2013
LTE086	MELCO	JP4413966		7	3GPP TS 36.321 V9.2.0	ISLD-202006-006	20 Apr 2005
			CNZL200580049478.2				20 Apr 2005
			EP1873925				20 Apr 2005
			EP1873925(DE)				20 Apr 2005
			EP1873925(FR)				20 Apr 2005
			EP1873925(GB)				20 Apr 2005
			EP2662997				09 Aug 2013
			JP5546379				16 Jul 2010
			JP5788053				11 Apr 2014
			US8717912				20 Apr 2005
LTE087	MELCO	JP4776693		1	3GPP TS 36.300 3GPP TS 36.213	ISLD-202006-006	09 Aug 2007
			CNZL200780030693.7				09 Aug 2007
			EP2068578(DE)				09 Aug 2007
			EP2068578(FR)				09 Aug 2007
			EP2068578(GB)				09 Aug 2007
			US8165082				09 Aug 2007
	US8942198				06 Apr 2012		
	US9277561				11 Dec 2014		
LTE088	MELCO	JP5139543		1	3GPP TS 36.401 V9.2.1	ISLD-202006-006	28 Jan 2010
			JP5496311				14 Nov 2012
			JP5744266				04 Mar 2014
			US10887731				26 Apr 2016
			US9072104				28 Jan 2010
	US9357545				08 May 2015		
LTE089	MELCO	JP4812323		3	3GPP TS 36.211 V8.6.0 3GPP TS 36.213 V8.6.0 3GPP TS 36.212 V8.7.0	ISLD-201207-004	08 Apr 2005
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			EP1585232(FR)				08 Apr 2004
			EP1585232(GB)				08 Apr 2004
			JP5318038				30 Jun 2010
			US7756210				29 Mar 2005
			US8265187				07 Apr 2010
LTE090	MELCO	JP4963927		1	3GPP TS 36.300 3GPP TS 36.423 3GPP TS 22.011	ISLD-201207-004	13 Oct 2006
			CNZL200610163544.5				12 Oct 2006
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			EP2247136(FR)				17 Aug 2010
			EP2247136(GB)				17 Aug 2010
			JP5535813				29 Jul 2010
			JP5647276				25 Jan 2013

LTE090	MELCO		US8073445				21 Sep 2006	
			US8095136				07 Sep 2010	
			US8396478				10 Nov 2011	
LTE091	MELCO	US8068444		1	3GPP TS 21.905 v8.8.0: Section 3 3GPP TS 21.211 v8.6.0: Sections 3.1, 4, 4.2, 5.2.1, 5.2.2, 5.2.3, 6.2.1, 6.2.2, 6.2.3, 8.1; Figures 4.2-1, 5.2.1-1, 6.2.2-1; Tables 4.2-1, 5.2.3-1, 6.2.3-1 3GPP TS 36.213 v8.6.0: Section 4.2.3 3GPP TS 36.321 v8.5.0: Sections 5.1.4, 5.2, 6.2.3 3GPP TS 36.300 v8.8.0: Sections 3.2, 5, 5.2.7.3; Figures 5-1, 5-2; Table 5-1	ISLD-201207-004	28 Sep 2006	
		JP4852615		1	3GPP TS 36.211 V8.6.0: Sections 3.1, 4, 4.2, 5.2, 6.2, 8.1 3GPP TS 36.213 V8.6.0: Section 4.2.3 3GPP TS 36.321 V8.5.0: Section 6.2.3 3GPP TS 36.300 V8.8.0: Section 5.2.7	ISLD-201207-004	28 Sep 2006	
		EP2134006		1	3GPP TS 36.211 V8.6.0: Sections 3.1, 4.2, 5.2.3, 5.6, 6.2.3, 6.12, 8.1; Figures 4.2-1, 8.1-1; Tables 4.2-1, 4.2-2, 5.2.3-1, 5.6-1, 6.2.3-1, 6.12-1 3GPP TS 36.213 V8.6.0: Section 4.2.3 3GPP TS 36.321 V8.5.0: Section 6.2.3 3GPP TS 36.300 V8.8.0: Section 5.2.7.3	ISLD-201207-004	23 Jun 2009	
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			KR101254268					28 Sep 2006
LTE092	MELCO	EP2271161		4	3GPP TS 23.401 V16.1.0 Section 5.3.3.1, 5.3.3.0, 3GPP TS 24.301 V15.5.0 Section 5.5.3.2.4, 8.2.26, 8.2.26.1, 9.9.3.33	ISLD-201207-004	17 Sep 2010	
			CNZL200710101661.3				19 Mar 2007	
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	US8073459				19 Mar 2007			
LTE093	MELCO	JP5506861		1, 8	3GPP TS 36.201 V8.3.0: Sections 4.1.1, 4.2.1 3GPP TS 36.213 V8.8.0: Sections 7.2	ISLD-201207-004	06 Jun 2012	
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			EP1845678(FR)				14 Apr 2006	
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LTE093	MELCO		EP1845678(NL)				14 Apr 2006	
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LTE094	MELCO	US8825067		1, 4	3GPP TS 36.321 V8.7.0: Sections 5.4.1, 5.4.4, 5.4.5 3GPP TS 36.213 V8.8.0: Sections 7.3, 10.1; Table 10.1-5 3GPP TS 36.331 V8.7.0: Sections 6.3.2 3GPP TS 36.211 V8.8.0: Sections 5.4.1, 5.5, 5.5.2.2.1, 5.5.2.2.2; Table 5.5.2.2.2-1	ISLD-201207-004	25 Aug 2011	
		EP2254259		1, 4	3GPP TS 36.211 V8.8.0: Sections 4.1.1, 4.2.1, 5.4.1, 5.5.2.2.1, 5.2.2.2.2 3GPP TS 36.213 V8.8.0: Sections 7.3, 10.1 3GPP TS 36.321 V8.7.0: Sections 5.4.1, 5.4.4, 5.4.5, 7.2.1 3GPP TS 36.331 V8.7.0: Sections 6.3.2	ISLD-201207-004	22 Sep 2006	
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LTE095	MELCO	EP1871023		1	3GPP TS 36.213 V8.7.0 3GPP TS 36.211 V8.7.0 3GPP TS 36.212 V8.7.0 3GPP TS 36.331 V8.7.0	ISLD-201207-004	23 Jun 2006	
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			EP1871023(FR)				23 Jun 2006	
		EP1871023(GB)				23 Jun 2006		
LTE096	MELCO	JP5810151		1	3GPP TS 36.213 V10.0.0 3GPP TS 36.211 V10.1.0	ISLD-201207-004	04 Apr 2011	
			CNZL201180029113.9					04 Apr 2011

LTE096	MELCO		EP2559187(DE)				04 Apr 2011	
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			US8995374				04 Apr 2011	
LTE097	MELCO	EP2136596		12	3GPP TS136.331 3GPP TS136.213	ISLD-201207-004	20 Aug 2009	
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			EP2136596(FR)				20 Aug 2009	
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			JP5844711				26 Oct 2012	
LTE098	MELCO	US7796704		10	3GPP TS136.331	ISLD-201207-004	29 Mar 2006	
							18 Apr 2005	
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				EP1715708(GB)				18 Apr 2005
				US8081709				13 Jul 2010
LTE099	MELCO	JP5089519		1	3GPP TS 36.213 V8.8.0	ISLD-202008-001	25 Jul 2008	
							05 Aug 2008	
				EP2023504				05 Aug 2008
				EP2023504(DE)				05 Aug 2008
				EP2023504(FR)				05 Aug 2008
				EP2023504(GB)				05 Aug 2008
				KR101061639				25 Jun 2010
LTE100	MELCO	JP5079098		6	3GPP TS 36.213 V8.8.0 Section 8.2	ISLD-202008-001	07 May 2009	
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				CNZL200980115949.3				07 May 2009
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LTE101	MELCO	JP5079097		2	3GPP TS 36.213 V8.8.0	ISLD-202008-001	07 May 2009	
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LTE102	MELCO	JP5199387		4	3GPP TS 36.213 V8.8.0 Section 8.2	ISLD-202008-001	07 May 2009	
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				CNZL200980116094.6				07 May 2009
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LTE103	MELCO	EP2533600		1	3GPP TS 36.300 V10.3.0 3GPP TS 36.413 V10.1.0 3GPP TS 36.321 V10.1.0 3GPP TS 36.213 V10.1.0	ISLD-201207-004	05 Sep 2012	
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				BRPI0915206-7				09 Jun 2009
				CNZL200980121915.5				10 Jun 2014
				CNZL201410254852.3				09 Jun 2009
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LTE103	MELCO		EP2533600(FR)				05 Sep 2012		
			EP2533600(GB)				05 Sep 2012		
			JP5749159				09 Jun 2009		
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			KR101561271				09 Jun 2009		
			KR101623919				09 Jun 2014		
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LTE104	MELCO	US8526512		1	3GPP TS 36.300 3GPP TS 36.321 3GPP TS 36.212 3GPP TS 36.211 3GPP TS 36.213 3GPP TS 36.101	ISLD-202006-006	24 Jul 2009		
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			KR101643434				24 Jul 2009		
LTE105	MELCO	JP5462327		1	3GPP TS 36.300 3GPP TS 36.213 3GPP TS 36.211	ISLD-202006-006	19 Jul 2012		
				CNZL201080010770.4					10 Mar 2010
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			JP5048867				10 Mar 2010		
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LTE106	MELCO	EP3190837		4	3GPP TS 36.101 V12.6.0: Sections 6.2.5, 6.2.5C 3GPP TS 36.213 V12.5.0: Sections 5.1.4, 6.1 3GPP TS 36.300 V12.5.0: Sections 4.9, 4.9.1 10.1, 10.1.2.8, 10.1.2.8.1 3GPP TS 36.331 V12.5.0: Sections 6.2.2, 6.3.2	ISLD-202006-006	23 Feb 2017		
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				CNZL201710464231.1					19 Jun 2017
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				KR101771415					09 Feb 2011
				RU2586884					09 Feb 2011
		RU2704118					05 May 2016		
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LTE107	MELCO	JP6351699		4	3GPP TS36.300 V11.4.0: Sections 3.2, 4, 16.1.5 3GPP TS 36.423 V10.1.0: Sections 8.3.1.2, 9.1.2.1, 9.2.55	ISLD-202006-006	27 Dec 2016		
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				CNZL201180021251.2					25 Apr 2011
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				IDP000048550					25 Apr 2011
				JP5773993					25 Apr 2011
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		JP6513265					04 Jun 2018		



LTE107	MELCO		KR101790569				25 Apr 2011
			KR101902174				18 Oct 2017
			KR102022390				12 Sep 2018
			RU2570360				25 Apr 2011
			RU2612030				05 Nov 2015
			RU2651808				10 Feb 2017
			RU2677689				28 Mar 2018
			US10193672				12 Nov 2014
			US10742377				11 Dec 2018
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LTE108	MELCO	US9705648		1	3GPP TS 36.300 V11.6.0	ISLD-202006-006	18 Mar 2016
			CNZL201080018936.7				23 Mar 2010
			CNZL201611063809.4				28 Nov 2016
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			IN342191				23 Mar 2010
			JP5079139				23 Mar 2010
			JP5511916				28 Aug 2012
			JP5721878				25 Mar 2014
			JP6080885				24 Mar 2015
			JP6400131				16 Jan 2017
			US10110356				08 Jun 2017
			US8953523				23 Mar 2010
			US9438390				06 Nov 2014
LTE109	MELCO	US10412712		3	3GPP TS 36.101 V11.6.0: Sections 5.5, 5.5A; Tables 5.5-1, 5.5A-2	ISLD-202006-006	21 Dec 2018
		US10200976		2	3GPP TS 36.101 V11.3.0: Sections 2, 3.3, 5.5; Table 5.5-1 3GPP TS 36.300 V11.2.0: Sections 4, 7.5 3GPP TS 36.311 V11.2.0: Sections 3.2, 4.2.1, 5.1.2, 5.2.1.1, 5.2.2.1, 6.2.1, 6.3.1, 6.3.4; Figure 5.2.2.1-1	ISLD-202006-006	19 Apr 2018
			JP5980124				20 Dec 2011
			JP6312753				26 Jul 2016
			JP6526276				14 Mar 2018
			JP6767539				07 May 2019
			US10609685				22 Jul 2019
			US9380563				20 Dec 2011
			US9980251				24 May 2016
		LTE110	MELCO	US10728889		1	3GPP TS 36.300 V15.6.0: Sections 3.1, 3.2, 5.5.0, 7.5, 10.1.2.7, 10.1.5.0, 10.1.5.2; Figure 10.1.5.2-1 3GPP TS 36.321 V15.6.0: Sections 5.1.4, 6.1.3.5; Figure 6.1.3.5-1 3GPP TS 36.213 V15.6.0: Section 4.2.3 3GPP TS 36.104 V15.7.0: Sections 6.5.3, 6.5.3.1 3GPP TS 36.211 V15.6.0: Section 8.1; Figure 8.1-1
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	US9730213						13 Jun 2016

LTE111	KPN	EP2486750		1	3GPP TS 36.331 V10.20.0: Sections 5.6.5.1, 5.6.5.2, 5.6.5.3, 5.6.6.1, 5.6.6.2, 6.2.2, 6.3.1 3GPP TS 25.331 V10.20.0: Sections 10.3.7.13, 10.3.7.23, 10.3.7.33 3GPP TS 36.306 V10.15.0: Sections 4.3.7.1, 4.3.7.9, 4.3.7.11, 4.3.13.1 3GPP TS 37.320 V10.4.0: Sections 3.1, 4.1, 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3.2, 5.1.1.3.3 3GPP TS 32.422 V10.13.0: Sections 4.1.1.6a, 4.1.5, 6 3GPP TS 36.304 V10.8.0: Section 8 3GPP TS 36.300 V10.12.0: Section 22.3.2a	ISLD-201606-002 ISLD-201606-003	05 Oct 2010	
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			JP5600176 US8660560					05 Oct 2010
LTE112	KPN	EP2566263		1, 2, 9	3GPP TS 23.003 V13.10.0 (included by reference in TS 23.682 V13.9.0 and in TS 36.331 V13.6.1): Section 15.3 3GPP TS 23.246 V13.3.0 (included by reference in TS 23.682 V13.9.0 and in TS 36.331 V13.6.1): Sections 3.1, 4.4.3, 4.4.3.3, 4.4.3.4; Figure 4 3GPP TS 23.682 V13.9.0: Sections 1, 4.2, 4.5.5, 5.5.1; Figure 5.5.1-1 3GPP TS 36.331 V13.6.1: Sections 5.8.1.1, 5.8.2.1, 6.2.2, 6.3.7; Figure 5.8.2.1-1	ISLD-201708-016	05 Oct 2010	
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			EP2566263(SE) JP5562425 JP5847067 US9913072					05 Oct 2010 12 Dec 2012 28 Dec 2012
LTE113	KPN	US9699820		16	3GPP TS 23.303 v12.8.0: Sections 5.6.2; Annex A: informative A.2	ISLD-201605-011	10 Aug 2016	
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			KR101760229					29 Aug 2013
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LTE114	KPN	CNZL200980152983.8		19	3GPP TS 23.401 V13.6.0: Sections 4.11, 5.3.2.1, 5.3.4B, 5.3.4B.1, 5.3.4B.2; Figure 5.3.2.1-1, 5.3.4B.2-1 3GPP TS 23.682 V13.5.0: Section 5.13.4; Figure 5.13.4-1	ISLD-201605-009	28 Oct 2009	
			2	1, 15, 17, 21	3GPP TS 23.401 v13.8.0: Sections 4.11, 5.3.4 B, 5.3.4 B.1; Figure 5.3.4. B-1 3GPP TS 23.682 v13.6.0: Sections 5.13.4; Figure 5.13.4-1	ISLD-201605-009	03 Jun 2011	
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		EP2342538(GB)					28 Oct 2009	
		EP2342538(NL)					28 Oct 2009	
		EP2342538(PL)					28 Oct 2009	

LTE114	KPN		EP2342538(SE)				28 Oct 2009	
			EP2615421(CH)				28 Oct 2009	
			EP2615421(DE)				28 Oct 2009	
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			EP2615421(FR)				28 Oct 2009	
			EP2615421(GB)				28 Oct 2009	
			EP2615421(IT)				28 Oct 2009	
			EP2615421(NL)				28 Oct 2009	
			EP2615421(SE)				28 Oct 2009	
			IN341508					19 Apr 2011
	US10419910					08 Jun 2016		
LTE115	KPN	US9820134		1, 10, 11, 12	3GPP TS 23.303 v13.6.0: Sections 3.1, 3.2, 4.6.4.2a, 5.3.1.2, 5.3.2A, 5.3.3A.2, 5.3.3A.4; Figures 5.3.2A-1, 5.3.3A.2A-1, 5.3.3A.4A-1	ISLD-201708-015 ISLD-201809-330	23 Jan 2014	
			JP6145177					23 Jan 2014
LTE116	MELCO	JP5602255		1	3GPP TS 36.211 V10.5.0 Section 6.1, 6.5, 6.11.1, 6.11.2 3GPP TS 36.304 V10.5.0 Section 7.1, 7.2 3GPP TS 36.331 V10.5.0 Section 5.3.2, 6.3.7	ISLD-202006-006	11 Jan 2013	
			CNZL200680050128.2					09 Aug 2006
			CNZL201510225622.9					06 May 2015
			JP4800388					09 Aug 2006
			JP5236774					22 Apr 2011
			KR101258130					09 Aug 2006
			KR101329607					04 Mar 2011
			KR101389809					24 Jun 2010
	US8660046					09 Aug 2006		
LTE117	KPN	EP2656648		1, 9	3GPP TS 33.163 V15.3.0: Sections 3.1, 4.5, 4.6.2.2, 5.1.0, 5.1.3; Figures 4.6.2.2-1; Table: 5.1.3-1	ISLD-201903-013	06 Dec 2011	
			EP2656648(DE)					06 Dec 2011
			EP2656648(FI)					06 Dec 2011
			EP2656648(FR)					06 Dec 2011
			EP2656648(GB)					06 Dec 2011
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			EP2656648(NL)					06 Dec 2011
			EP2656648(SE)					06 Dec 2011
			US10103887					20 Jun 2013
		LTE118	Sisvel International	US10064176		1, 6, 9	3GPP TS 36.331 V12.5.0: Sections 5.1.1, 5.10.1, 5.10.1a, 5.10.2.1, 5.10.2.2, 5.10.7.1, 5.10.7.4, 6.3.1, 6.3.2, 6.5.1, 6.5.2, Figures 5.10.2-1, 5.10.7.1-1, 5.10.7.1-2; 5.10.7.1-3 3GPP TS 36.221 V12.5.0: Sections 4, 4.2; Table 4.2-2 3GPP TS 23.303 V12.4.0: Sections 1, 4.4.1.1, 4.4.2, 4.5.1.1.2.3.1, 4.5.6	ISLD-202006-010
	CNZL201410255736.3							10 Jun 2014
	EP3010197(DE)							09 Jun 2014
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	EP3010197(GB)							09 Jun 2014
	EP3010197(IT)							09 Jun 2014
	EP3010197(NL)							09 Jun 2014
	EP3010197(PL)							09 Jun 2014
	KR102226026							09 Jun 2014
LTE119	Sisvel International	US9973324		1, 11	3GPP TS 36.213 V12.4.0: Sections 7.1, 8.0; Table 8-2 3GPP TS 36.306 V12.3.0: Sections 4.3.4.28, 3GPP TS 36.212 V12.3.0: Sections 5.3.3, 5.3.3.1.1, 5.3.3.1.8	ISLD-201805-023	08 May 2014	
		US10498520		1, 11	3GPP TS 36.213 V12.4.0: Sections 7.1, 8.0; Table 8-2 3GPP TS 36.306 V12.3.0: Sections 4.3.4.28, 3GPP TS 36.212 V12.3.0: Sections 5.3.3, 5.3.3.1.1, 5.3.3.1.8	ISLD-201805-023	02 Apr 2018	
			CNZL201410090475.4					12 Mar 2014
		DE602014040534.7					08 May 2014	

LTE119	Sisvel International		EP3041304(FR)			08 May 2014	
			EP3041304(GB)			08 May 2014	
			EP3041304(IT)			08 May 2014	
			EP3041304(NL)			08 May 2014	
			EP3041304(PL)			08 May 2014	
			ES2722411			08 May 2014	
			ES2896423			08 May 2014	
LTE120	Sisvel International	US10412748		1	3GPPTS36.212V13.0.0:Sections:5.3.3,5.3.3.1,5.3.3.1.1,5.3.3.1.2,5.3.3.1.3 3GPPTS36.331V13.1.0:Sections6.2,6.2.2,6.3.2,6.3.4,6.4,8.0 3GPPTS23.003V8.17.0:Section7.1	ISLD-202006-010	28 Dec 2015
		CNZL201410852934.8		1,5,9,13	3GPPTS36.212V13.0.0:Sections1,5.3.3,5.3.3.1,5.3.3.1.1,5.3.3.1.2,5.3.3.1.3,5.3.3.1.3A,5.3.3.1.4A,5.3.3.1.5,5.3.3.1.5A,5.3.3.1.5B,5.3.3.1.5C,5.3.3.1.5D,5.3.3.1.8 3GPPTS36.331V13.1.0:Sections1,4.1,5.3.5.1,6.2.2,6.3.2,6.3.4,6.4;Figures5.3.5.1-1,5.3.5.1-2 3GPPTS36.213V13.1.0:Sections7.1,8.0	ISLD-202006-010	26 Dec 2014
			DE602015073413.0				28 Dec 2015
			EP3240345(FR)				28 Dec 2015
			EP3240345(GB)				28 Dec 2015
			EP3240345(IT)				28 Dec 2015
			EP3240345(NL)				28 Dec 2015
LTE121	Sisvel International	US10362566		1	3GPP TS 36.321 V14.3.0: Sections 3.1, 3.2, 5.4, 5.4.4 3GPP TS 36.331 V14.3.0: Sections 3.1, 6.3, 6.3.2 3GPP TS 36.213 V14.7.0: Sections 10, 10.1, 10.1.5	ISLD-202006-010	28 Dec 2015
		CNZL201510040667.9		1, 8	3GPP TS 36.321 V14.3.0: Sections 5.4.4 3GPP TS 36.331 V14.3.0: Sections 3.1, 6.3.2 3GPP TS 36.213 V14.7.0: Sections 10, 10.1, 10.1.1, 10.1.5	ISLD-202006-010	27 Jan 2015
			US10798690				04 Jun 2019
LTE122	Sisvel International	CNZL201510698366.5		1, 17	3GPP TS 36.211 V14.3.0: Sections 4.1, 4.2, 5.2.3, 6.2.3, 10.1.2.1, 10.1.2.3, 10.2.2.1, 10.2.5.1, 10.2.7, 10.2.7.1, 10.2.7.1.1, 10.2.7.1.2, 10.2.7.2, 10.2.7.2.1, 10.2.7.2.2, ; Tables 5.2.3-1, 6.2.3-1, 10.1.2.1-1, 10.2.5.1-1, 10.2.7.1.1-1 3GPP TS 36.213 V14.3.0: Sections 16.4, 16.4.1, 16.4.1.3, 16.5.1, 16.5.1.1,16.6; Table 16.4.1.3-1, 16.4.1.3-2, 16.5.1.1-2, 16.5.1.1-3, 16.6-1 3GPP TS 36.331 V14.3.0: Sections 3.1, 5.2.1.1, 5.2.1.2a, 6.7.2, 6.7.3.2; Figure1 5.2.2.1-1 3GPP TS 36.212 V14.3.0: Sections 6.1, 6.4.3, 6.4.3.1, 6.4.3.2; Tables 6.1-3	ISLD-202006-010	23 Oct 2015
			CNZL201711475202.1 US10826665				23 Oct 2015 11 Jul 2016
LTE123	Sisvel International	US10484143		1	3GPP TS 36.213 V15.3.0: Sections 7.1, 7.3, 7.3.1, 10.1, 10.1.2.1, 10.1.2.2.2, 10.1.2.2.3; Table 10.1-1 3GPP TS 36.211 V15.1.0: Sections 4.1; Figure 4.1-1; Table 4.1-1 3GPP TS 36.212 V15.2.1: Sections 5.3.3.1.3, 5.3.3.1.17, 5.3.3.1.18, 5.3.3.1.19, 5.3.3.1.20, 5.3.3.1.21, 5.3.3.1.22, 5.3.3.1.23; Table 5.3.3.1.17-1 3GPP TS 36.331 V15.3.0: Section 6.3.2	ISLD-202006-010	31 Aug 2018
			CNZL201610121604.0	1, 17	3GPP TS 36.213 V15.3.0: Sections 7.1, 7.3, 7.3.1, 10.1, 10.1.1, 10.1.2.1, 10.1.2.2.2, 10.1.2.2.3; Table 10.1-1 3GPP TS 36.211 V15.1.0: Sections 4.1; Figure 4.1-1; Table 4.1-1 3GPP TS 36.212 V15.2.1: Sections 5.3.3.1.3, 5.3.3.1.17, 5.3.3.1.18, 5.3.3.1.19, 5.3.3.1.20, 5.3.3.1.21, 5.3.3.1.22, 5.3.3.1.23; Table 5.3.3.1.17-1 3GPP TS 36.331 V15.3.0: Section 6.3.2	ISLD-202006-010	03 Mar 2016
LTE124	Sisvel International	US9749969		1, 9	3GPP TS 36.331 V13.1.0: Sections 3.1, 3.2, 4.2.2, 5.2.1.1, 5.2.2.1, 5.3.3.1, 6.2.2, 6.3.1, 6.3.2; Figures 5.2.2.1-1, 5.3.3.1-1 3GPP TS 36.213 V12.5.0: Sections 5.1.2, 5.1.2.1, 5.1.4, 5.1.4.1, 5.1.4.2 3GPP TS 36.101 V12.5.0: Sections 6.2.5	ISLD-202006-010	12 Feb 2015
LTE125	3G Licensing		EP2438782(DE)			03 Jun 2010	
			EP2438782(ES)			03 Jun 2010	

LTE125	3G Licensing		EP2438782(FR)				03 Jun 2010		
			EP2438782(GB)				03 Jun 2010		
			EP2438782(IT)				03 Jun 2010		
			EP2438782(NL)				03 Jun 2010		
			EP2438782(PL)				03 Jun 2010		
			US10736026				03 Jun 2010		
LTE126	3G Licensing	US8600383		1	3GPP TS 36.304 v8.10.0: Sections 1, 5.2.1, 5.2.4.4	ISLD-201202-005 ISLD-201301-011 ISLD-201402-021	14 Sep 2012		
			CA2516278					18 Aug 2005	
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		EP1628497(IT)					18 Aug 2005		
		US7463887					18 Aug 2004		
		US8290491					26 Sep 2011		
		US8351940					07 Nov 2008		
		LTE128	3G Licensing	US8189611		1	3GPP TS 24.301 V11.7.0: Sections 6.5.1.1, 6.5.1.4A	ISLD-201402-021	02 Dec 2008
					CNZL200610064046.5				
				CNZL201010576392.8					03 Nov 2006
EP1783961(NL)							04 Nov 2005		
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HK1102880							17 Oct 2007		
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JP5368498							16 Feb 2011		
KR101116459							25 Mar 2011		
KR101116524							03 Nov 2006		
SG131920							31 Oct 2006		
TWI338527					03 Nov 2006				
US7474671					04 Nov 2005				
US8379666					16 Apr 2012				
LTE129	3G Licensing	US8472955		1	3GPP TS 23.122 V8.12.0: Sections 1.2, 4.2, 4.4.3.1.1; Annex A 3GPP TS 22.011 V8.11.0: Sections 1.2, 3.2.2.1 3GPP TS 31.102 V8.11.0: Sections 1, 4.2.84, 4.2.53, 5.1.1.2 3GPP TS 36.331 V8.21.0: Sections 6.1, 6.3.4 3GPP TS 24.301 V8.10.0: Sections 8.2.1.1, 9.9.3.32, 9.9.3.33; Table 8.2.1.1; Figures 9.9.3.32.1, 9.9.3.33.1 3GPP TS 22.101 V8.15.0: Sections A.3	ISLD-200911-009 ISLD-201208-005 ISLD-201301-011	03 Jul 2012		
			CA2478008					20 Aug 2004	
		CA2680720					10 Sep 2009		
		EP1513358(DE)					03 Sep 2003		
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		EP1513358(GB)					03 Sep 2003		
		HK1075996					23 Aug 2005		
		US7274933					02 Sep 2004		
		US7460868					03 Aug 2007		

LTE129	3G Licensing		US7596375				22 Sep 2008
			US8275374				26 Aug 2009
			US8948756				13 Jun 2013
LTE130	Sisvel SPA	EP2315383		1	3GPP TS 36.322 V8.5.0: Sections 4.2.1.3.1, 5.1.3.1.1, 5.1.3.2.1, 5.1.3.2.3, 5.2.1, 5.2.3, 6.1.2, 6.2.1.6, 6.2.2.14, 6.2.2.16, 7.1, 7.3; Figures 6.2.1.6-1	ISLD-201407-015 ISLD-201412-003	03 Jan 2007
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		CNZL201110399482.9				05 Dec 2011	
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		EP2315383(ES)				03 Jan 2007	
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JP4968858				03 Jan 2007			
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TWI483589				04 Jan 2007			
US7826855				29 Apr 2009			
US7869396				03 Jan 2007			
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US8369865				07 Mar 2012			
LTE131	Sisvel SPA	EP2248383		1	3GPP TS 36.321 V8.5.0: Section 5.4.1 3GPP TS 36.213 V8.6.0: Sections 8, 8.1, 9.1.1, 9.2; Table 8-5, 9.2-1A 3GPP TS 36.212 V8.8.0: Sections 5.3.3, 5.3.3.1.1	ISLD-201107-003 ISLD-201410-027	10 Sep 2009
			CNZL200980115142.X				10 Sep 2009
		CNZL201310036114.7				30 Jan 2013	
		DE602009045753.5				10 Sep 2009	
		EP2248383(AT)				10 Sep 2009	
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LTE131	Sisvel SPA					EP2248383(CH)			10 Sep 2009
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				US8971279			08 Mar 2013		
				US9369254			20 Jan 2015		
LTE132	MELCO	JP6612940	4	3GPP TS 36.300 V12.5.0: Sections 4, 4.9.1 and 10.1.2.8.1 3GPP TS 35.423 V12.5.0: Sections 1 and 9.1.3.2 3GPP TS 36.331 V12.5.0: Sections 6.2.2 and 6.3.2	ISLD-202006-006		26 Jul 2018		
LTE133	MELCO	JP6415670	1	3GPP TS 36.300 V13.2.0	ISLD-202006-006		13 Nov 2017		

LTE134	MELCO	JP5084951		1	3GPP TS 36.331 V12.0.0	ISLD-202006-006	21 Apr 2010
			CNZL201080018941.8				21 Apr 2010
			CNZL201710561496.3				11 Jul 2017
			CNZL201710562025.4				11 Jul 2017
			IN350882				21 Apr 2010
			JP5518151				04 Sep 2012
			JP5744276				01 Apr 2014
			JP6169123				28 Apr 2015
			JP6815286				27 Jun 2017
			US10356635				21 Apr 2016
		US9350501				21 Apr 2010	
LTE135	Sisvel International	US9980306		1, 13	3GPP TS 36.331 V12.5.0: Sections 1, 4, 4.1, 4.2, 5.10.1, 5.10.7.1, 5.10.7.2, 5.10.7.3, 5.10.7.4, 5.10.7.5, 5.10.9.1, 6.3.8, 6.5.2; Figures 4.1-1, 4.2-1, 5.10.7.1-1, 5.10.7.1-2, 5.10.7.1-3	ISLD-202006-010	29 Aug 2014
			CNZL201310608978.1				25 Nov 2013
			EP3051853(DE)				29 Aug 2014
			EP3051853(FR)				29 Aug 2014
			EP3051853(GB)				29 Aug 2014
		KR102180368				29 Aug 2014	
LTE136	3G Licensing	US9635142		9	3GPP TS 36.331 V8.21.0: Sections 5.3.10.3, 6.3.2 3GPP TS 36.323 V8.6.0: Sections 5.5.1		24 May 2012
			AU2003252560				14 Aug 2003
			CNZL200910252337.0				02 Dec 2009
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			EP1532778(BE)				14 Aug 2003
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			EP2375654(FR)				14 Aug 2003
			EP2375654(GB)				14 Aug 2003
			EP2375654(NL)				14 Aug 2003
			HK1077441				21 Oct 2005
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			IN201107				14 Aug 2003
			JP4008447				14 Aug 2003
			KR100981823				08 Apr 2008
			KR101020318				05 Mar 2010
			KZ19891				14 Aug 2003
			MX265811				14 Aug 2003
			RU2310283				08 Sep 2004
			UA77036				14 Aug 2003
US7366105				14 Aug 2003			
US8139555				04 Apr 2008			
		US8848684				14 Aug 2003	



LTE136	3G Licensing		US9635140				14 Aug 2003	
			US9635141				14 Aug 2003	
			ZA200403512				14 Aug 2003	
LTE137	3G Licensing	US8451818		1	3GPP TS 36.322 V8.8.0: Sections 4.2.1, 4.2.1.1.1, 4.2.1.1.2, 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2, 4.2.1.3, 4.2.1.3.1, 4.2.1.3.2; Figure 4.2.1.1.1-1, 4.2.1.2.1-1, 4.2.1.3.1-1		23 Jul 2010	
				US6788652				12 Nov 1999
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				US7583699				08 Sep 2003
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			US7920595				31 Aug 2007	
LTE138	3G Licensing	US7782833		1	3GPP TS 36.321 V8.12.0: Sections 1, 3.2, 4.2.1, 4.3.1, 4.3.2, 4.4, 4.5, 4.5.1, 4.5.2, 4.5.3, 4.5.3.1, 4.5.3.2, 6.1.1, 6.1.2, 6.2.1; Figures 4.2.1.1, 4.5.3.1-1, 4.5.3.2-1, 6.1.2-1, 6.1.2-2, 6.1.2-3; Tables 4.4-1, 4.5.1-1, 4.5.2-1, 4.5.3.1-1, 4.5.3.2-1 3GPP TS 36.322 v8.8.0: Sections 3.2, 4.2.1, 4.3.2; Figure 4.2.1-1		31 Jan 2007	
LTE139	3G Licensing	US8130819		1	3GPP TS 36.321 V8.12.0: Sections 5.3.2.1, 5.3.2.2 3GPP TS 36.212 V.8.8.0: Section 5.2.3.1 3GPP TS 36.213 V8.8.0: Section 10.1		09 Jun 2011	
				CA2654104				02 Dec 2008
				CNZL200780022582.1				16 Dec 2008
				EP2033354(DE)				13 Jan 2009
				EP2033354(DK)				13 Jan 2009
				EP2033354(FR)				13 Jan 2009
				EP2033354(SE)				13 Jan 2009
				EP2262154(DE)				01 Oct 2010
				EP2262154(FR)				01 Oct 2010
				EP2262154(GB)				01 Oct 2010
				IN269232				05 Dec 2008
				JP5443982				15 Dec 2008
				JP5685564				13 Sep 2012
				KR101253162				16 Jun 2006
				KR101265596				16 Jun 2006
				KR101285379				08 Aug 2008
				TWI443996				20 Jun 2007
	US7916775				15 Jun 2007			
	US7983330				17 Dec 2010			
	US8320434				18 Jan 2012			
LTE140	Fraunhofer	KR101204134		19	3GPP TS 26.247 V14.4.0: Sections 7.1, 7.3.4 and Figure 7-1	ISLD-201908-011	03 Dec 2008	
				BRPI0822167-7				03 Dec 2008
				CA2722204				03 Dec 2008
				CA2924651				03 Dec 2008
				IN306325				21 Oct 2010
				JP5238069				03 Dec 2008
			TWI463875				16 Apr 2009	
LTE141	Fraunhofer	EP2242187		1	3GPP TS 36.101 V10.0.0 : Sections 7.1, 7.5.1 3GPP TS 36.200 V10.0.0 : Sections 4 ; Figure 4-1 3GPP TS 36.201 V10.0.0 : Sections 4.1.2 3GPP TS 36.211 V11.0.0 : Sections 6.3.3.2 3GPP TS 36.214 V10.0.0 : Sections 4, 5.1.1, 5.1.3, 7.1, 7.5.1 3GPP TS 36.306 V11.0.0 : Sections 4.1, 4.3.5.2 ; Table 4.1-1	ISLD-201809-209 ISLD-201908-011	14 Apr 2009	
				EP2242187(DE)				14 Apr 2009
				EP2242187(ES)				14 Apr 2009
				EP2242187(FR)				14 Apr 2009
				EP2242187(GB)				14 Apr 2009
				EP2242187(IT)				14 Apr 2009
				US9800297				28 Dec 2011

LTE142	Fraunhofer	CNZL201280063481.X		43	3GPP TS 26.247 V14.4.0: Sections 7.1, 10.1, 10.2.4, 10.2.6, Annex L, Figure 7-1, Figure L-1, Table 27 3GPP TS 36.300 V13.1.0: Section 4.1	ISLD-201908-011	22 Oct 2012
			EP2769578				22 Oct 2012
			JP5908984				22 Oct 2012
			JP6254631				24 Mar 2016
			JP6533275				30 Nov 2017
			JP6560413				23 Jul 2018
			JP6700458				25 May 2019
			KR101618483				22 Oct 2012
			KR101824487				22 Oct 2012
			KR101874629				22 Oct 2012
			KR101923486				22 Oct 2012
US10945269	22 Oct 2012						
US9775163	18 Apr 2014						
LTE143	Fraunhofer	US10237747		1	3GPP TS 36.300 V14.11.0: Sections 5.7, 10.2.3.4, 22A.1.1, 22A.1.5 and 22A.1.6	ISLD-201912-064	25 Mar 2016
			CNZL201480052800.6				26 Sep 2014
			JP6574761				26 Sep 2014
			KR101822312				26 Sep 2014
LTE144	Fraunhofer	TWI683561		18	3GPP TS 36.331 V14.12.0 : Sections 1, 4.4 and 6.3.2 3GPP TS 36.212 V14.10.0 : Section 5.3.3.1 3GPP TS 36.213 V14.12.0 : Section 9.2	ISLD-201912-064	10 Aug 2017
			JP6808813				11 Aug 2017
			KR102276138				11 Aug 2017
			RU2735635				11 Aug 2017
			US10841943				08 Feb 2019
US11122611	03 Nov 2020						
LTE145	Fraunhofer	TWI662823		1, 3, 10, 19-23	3GPP TS 36.331 V14.9.0: Sections 1, 3.1, 4.1, 4.2.1, 5.2.1.2, 5.2.1.2a, 6.2.2, 6.7.3.1, 6.7.3.2 3GPP TS 36.211 V14.2.0: Section 4.1 3GPP TS 36.101 V14.3.0: Table 5.6-1	ISLD-201908-011 ISLD-201912-064	26 Sep 2017
			JP6810255				25 Sep 2017
			RU2713403				25 Sep 2017
LTE146	Wilus	US10743344		1,2	3GPP TS 36.212 v14.10.0: Sections 5.3, 5.3.3, 5.3.3.1.1A, 5.3.3.1.1B, 5.3.3.1.8A, 5.3.3.1.8B 3GPP TS 36.213 v14.11.0: Sections 1, 3.2, 15.2, 15.2.1.1, 15.2.2; Table 15.2.1-1 3GPP TS 36.300 v14.10.0: Sections 3.3	ISLD-201908-005	29 Sep 2018
			KR102283178 US11234270				28 Sep 2018 08 Jul 2020
LTE147	Wilus	US10728919		1,2	3GPP TS 36.212 v14.10.0: Sections 5.3, 5.3.3, 5.3.3.1.1A, 5.3.3.1.1B, 5.3.3.1.8A, 5.3.3.1.8B 3GPP TS 36.213 v14.11.0: Sections 1, 3.2, 15.2.1, 15.2.1.1, 15.2.1.2 3GPP TS 36.300 v14.10.0: Section 3.3	ISLD-201908-005	23 Jan 2019
			KR102278751				21 Feb 2019
			KR102325682 US11297636				05 Jul 2021 18 Jun 2020
LTE150	Wilus	US10757717		1, 2	3GPP TS 36.212 V14.10.0: Sections 3.3, 5.3, 5.3.3, 5.3.3.1.4 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 13A, 15.1, 15.2, 15.2.1, 15.2.1.1, 15.2.1.2; Tables 13A-2	ISLD-201908-005	21 Sep 2018
			CNZL201780018454.3				19 Sep 2018
			KR102285189 US11330609				21 Sep 2018 14 Jul 2020
LTE151	Wilus	US10805950		1,2	3GPP TS 36.212 v14.10.0: Sections 5.3, 5.3.3, 5.3.3.1.1A 3GPP TS 36.213 v14.13.0: Sections 1, 3.2, 15.1, 15.1.1, 15.2, 15.2.1, 15.2.1.1; Table 15.2.1-1 3GPP TS 36.300 v11.2.0: Sections 3.3, 5.7	ISLD-201908-005	21 Sep 2018
			CNZL201780030922.9 KR102287383				19 Nov 2018 21 Sep 2018

LTE153	Wilus	US11064364		1	3GPP TS 36.212 V14.15.0: Sections 3.3, 5.2.2, 5.2.2.6, 5.3.3, 5.3.3.1, 5.3.3.1.1A; Table 5.3.3.1.1A-1 3GPP TS 36.211 V14.15.0: Sections 4.3, 5.2.1, 5.2.3; Table 5.2.3-1	ISLD-201908-005	11 Jul 2018
LTE154	Wilus	US11096060		1	3GPP TS 37.213 V16.5.0: Sections 4.2.1, 4.2.1.0, 4.2.1.0.1, 4.2.1.1, 4.2.2, 4.2.2.1; Tables: 4.2.1-1 3GPP TS 36.212 V16.5.0: Sections: 5.3.3.1, 5.3.3.1.1A, 5.3.3.1.1B; Tables: 5.3.3.1.1A-1, 5.3.3.1.1A-2, 5.3.3.1.1A-3	ISLD-201908-005	20 Sep 2019
			KR102278753				20 Sep 2019
LTE155	Wilus	US11044752		12	3GPP TS 37.213 V15.3.0: Sections 4.2.1, 4.2.1.1, 4.2.1.2 3GPP TS 36.300 V15.12.0: Sections 5.7, 5.7.0, 11.1.2	ISLD-201908-005	11 Feb 2020
			KR102389027				20 Feb 2020
LTE156	Sisvel International	CNZL201410255478.9		9, 18	3GPP TS 36.212 V13.2.0: Sections 1, 3.3, 5.3, 5.3.3.1, 5.3.3.1.1, 5.3.3.1.2, 5.3.3.1.3, 5.3.3.1.3A, 5.3.3.1.4, 5.3.3.1.4A 3GPP TS 36.213 V13.2.0: Sections 1, 3.2, 3A, 4.1, 7.1, 13A, 15.1.1		10 Jun 2014
LTE157	Sisvel International	CNZL201410318536.8		6, 16	3GPP TS 36.212 V14.3.0: Sections 1, 3.3, 4.2, 5.3.3.1.1A 3GPP TS 36.201 V14.1.0: Sections 1, 3.3, 4.2.2		04 Jul 2014
			CNZL201910420611.4				04 Jul 2014
LTE158	MELCO	JP5174964		1	3GPP TS36.331	ISLD-202006-006	15 Jun 2010
			CNZL201080027253.8				15 Jun 2010
			CNZL201510236237.4				11 May 2015
			CNZL201510237085.X				11 May 2015
			JP5595472				26 Dec 2012
			JP6457578				05 Apr 2017
			JP6877401				20 Dec 2018
			US8908560				15 Jun 2010
			US9386577				03 Nov 2014
LTE159	MELCO	JP5889213		3	3GPP TS36.300	ISLD-202008-001	07 Feb 2012
			CNZL201280008398.2				07 Feb 2012
			CNZL201710073607.6				10 Feb 2017
			CNZL201710073630.5				10 Feb 2017
			CNZL201710073972.7				10 Feb 2017
			JP6116720				16 Feb 2016
			JP6366763				17 Mar 2017
			US10575191				03 Jun 2016
			US10893421				06 Aug 2019
			US9066329				07 Feb 2012
LTE160	MELCO	JP6466860		1	3GPP TS36.331	ISLD-202008-001	29 Jan 2016
			CNZL201180009026.7				09 Feb 2011
			JP6667480				03 Aug 2017
			US9871643				09 Feb 2011
LTE161	Fraunhofer		EP3497869(DE)				09 Aug 2017
			EP3497869(ES)				09 Aug 2017
			EP3497869(FR)				09 Aug 2017
			EP3497869(GB)				09 Aug 2017
			EP3497869(IT)				09 Aug 2017
			RU2722437				09 Aug 2017
LTE162	Fraunhofer		TWI681653				10 Aug 2017
			EP3653003				09 Nov 2018
			JP6900574				09 Nov 2018
			KR102231466				09 Nov 2018
			KR102339503				09 Nov 2018
LTE163	Sisvel International	CNZL201410697509.6		1, 4, 6, 10, 12	3GPP TS 36.211 V12.5.0: Sections 3.1, 5.3.1, 7.2, 9, 9.1, 9.1.1, 9.2, 9.2.4, 9.3, 9.3.1, 9.4, 9.4.1, 9.8 3GPP TS 36.212 V12.4.0: Sections 5, 5.2.2.6, 5.4, 5.4.3, 5.4.3.1, 5.4.3.1.1		26 Nov 2014

LTE163	Sisvel International		KR102302025				26 Nov 2014
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