

## SISVEL LTE PATENT BROCHURE

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Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date	
LTE-001	AIRBUS DS	FR 2829642		1	3GPP TS 36.211 V9.1.0 (2010-03): 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	9/12/2001	
			US 7471728					8/9/2001
LTE-002	AIRBUS DS	EP 1364547		1	3GPP TS 36.133 v9.3.0 (2010-03), Section 7.6, 7.6.1, 8.1.2.2.1.1, 3GPP TS 36.211 v9.1.0 (2010-03), Section 5.2.1, 6.2.1, Figure 5.2.1-1 3GPP TS 36.213 v9.1.0 (2010-03), Section 5.1, 3GPP TS 36.214 v9.1.0 (2010-03), Section 5.2.2, 3GPP TS 36.300 v9.2.0 (2009-12), Section 10.1, 10.1.2, Figure 10.1.2.1.1-1 3GPP TS 36.321 v9.1.0 (2009-12), Section 5.10 3GPP TS 36.331 v9.1.0 (2009-12), Section 5.5.1, 6.2.2, 6.3.5, 10.2.2	ISLD-201309-002	3/1/2002	
			CA 2439566C					3/1/2002
			DE 60209106.3					3/1/2002
			EP 1364547 (FR)					3/1/2002
			EP 1364547 (GB)					3/1/2002
			EP 1364547 (IT)					3/1/2002
			US 7254393					3/1/2002
LTE-003	AIRBUS DS	EP 1198906 (FR)		1,13	3GPP TS 36.201 V11.1.0 (2013-02): Sections 4, 4.1, 4.1.1, 4.2, 4.2.1, 4.3, 4.3.1, 6, 6.1.2 3GPP TS 36.211 V11.1.0 (2013-02): Sections 4, 4.1, 5.2.3 3GPP TS 36.300 V11.1.0 (2013-02): Sections 11.1, 11.1.1, 11.1.2 3GPP TS 36.321 V11.1.0 (2013-02): Sections 5.10, 5.10.1, 5.10.2	ISLD-201309-002	8/1/2000	
		US 7224683		1, 11	3GPP TS 36.300 V8.12.0 (2010-03): Section 4 3GPP TS 36.211 V8.9.0 (2009-12): 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 (2013-03): 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 (2012-03): Sections 5, 5.10, 5.10.2. 3GPP TS 36.213 V8.8.0 (2009-09): Sections 8, 8.3; Tables 8-1, 8.3-1	ISLD-201309-002	8/1/2000	

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-021	KPN	EP 2250835		15, 16, 29	3GPP TS 22.368 v10.5.0 (2011 06): Annex A (informative) 3GPP TS 23.003 v10.10.0 (2014-09): Section 2.1 3GPP TS 23.060 v10.14.0 (2014-09): Sections 5.3.0, 5.3.1, 5.3.6.2, 5.3.6.2.1, 5.3.6.2.3, 5.3.6.2.4, 5.6.3, 5.3.6.4, 6.5.0, 14.1, 14.2 3GPP TS 24.008 v10.15.0 (2014-09): Sections 4.1.1.7, 4.7.3.1.4, 6.1.3.11, 9.4.4, 9.4.4.2; Table: 9.4.4	ISLD-201304-010	2/19/2009
		EP 2337403		16, 30, 34	3GPP TS 22.368 v10.5.0 (2011 06): Annex A (informative) 3GPP TS 23.003 v10.10.0 (2014 09): Sections 2.1, 2.8.1, 3GPP TS 23.060 v10.14.0 (2014 09): Sections 14.1, 14.2, 14.2A, 3GPP TS 23.401 v10.13.0 (2014-12): Sections 4.3.1, 4.3.2, 4.3.7.4, 4.3.7.4.1, 4.3.7.4.2, 4.3.7.4.2.1, 4.3.7.4.2.3, 4.3.7.4.2.4, 5.1.1, 5.1.1.1, 5.2.2, 5.3.2.1, 5.3.9, 5.5.1.2.5 3GPP TS 24.301 v10.15.0 (2014 09): Sections 5.3.9, 5.5.1.2.5, 6.3.5, 8.2.3, 8.2.3.1, 8.2.3.3; Table 8.2.3.1	ISLD-201304-010	2/19/2009
		JP 5308459		35	3GPP TS 23.060 V10.5.0 Sections 5.3.0, 5.3.1, 5.3.6.2.1, 5.3.6.2.3,5.3.6.2.4, 5.3.6.4, 5.6.3, 6.5.0, 14.1 and 14.2. 3GPP TS 23.003 V10.3.0 Section 2.1. 3GPP TS 24.008 V10.4.0 Sections 4.1.1.7, 4.7.3.1.4, 6.1.3.11, 9.4.4, 9.4.4.2, 9.4.22 and 9.4.22.1. 3GPP TS 22.368 V11.3.0 Annex A.	ISLD-201304-010	2/19/2009
		US 9014667		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-201304-010	2/19/2009
			EP 2250835 (AT)				2/19/2009
			EP 2250835 (BE)				2/19/2009
			EP 2250835 (CH)				2/19/2009
			DE 602009003834.6				2/19/2009
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			EP 2250835 (FR)				2/19/2009
			EP 2337403 (FR)				2/19/2009
			EP 2250835 (GB)				2/19/2009
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			EP 2250835 (IS)				2/19/2009
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			KR 101231986				2/19/2009
			EP 2337403 (NL)				2/19/2009
			EP 2250835 (PL)				2/19/2009
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			EP 2337403 (SE)				2/19/2009
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LTE-021	KPN		US 9,253,637				2/19/2009	
			US 9,781,743				2/19/2009	
			KR 10-1231986				2/19/2009	
			JP 5684323				2/19/2009	
			JP 5841566				2/19/2009	
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			CN 101960886				2/19/2009	
			CN 103139696				2/19/2009	
			CN 103139698				2/19/2009	
			IN 273372				2/19/2009	
LTE-022	KPN	EP 831613		1	3GPP TR 21.905 V11.3.0 (2012-12): Section 3 (0-9) ETSI TS 136 212 V8.8.0 (2010-01): Sections 1, 5, 5.1.1, 5.1.2, 5.3.2, 5.3.2.1 ; Figure 5.3.2-1	ISLD-201203-018	11/21/1996	
			EP 831613 (BE)					11/21/1996
			EP 831613 (CH)					11/21/1996
			DE 69629564.4					11/21/1996
			ES 2204993					11/21/1996
			EP 831613 (FI)					11/21/1996
			EP 831613 (FR)					11/21/1996
			EP 831613 (IE)					11/21/1996
			EP 831613 (IT)					11/21/1996
			EP 831613 (LU)					11/21/1996
			EP 831613 (NL)					11/21/1996
			EP 831613 (SE)					11/21/1996
			LTE-023	KPN	US 6212662		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, 5.1.3.2, 5.1.3.2.1, Figure 5.1.3-2, 5.1.3.2.3, 3GPP TS 36.212 V9.3.0, Table 5.1.3-3
LTE-024	KPN	EP 2299649		1, 15	3GPP TS 23.228 V10.4.0, 3.1, 4.14, 3GPP TS 24.229 V10.3.0, 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	9/16/2010	
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			EP 2299649 (NL)					9/16/2010
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			EP 2299649 (SE)					9/16/2010
			US 8601141					9/16/2010

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date	
LTE-025	KPN	EP 2073551		1	3GPP TS 26.247 V11.1.0 (2012-12), Sections 2, 5.1, 5.3, 7.1, 7.2, 8.1, 8.4.1 and 8.4.4.1; Figures 3, 7-1 and 7-2	ISLD-201304-016 ISLD-201304-020	12/20/2007	
			DE 602007012916.8					12/20/2007
			ES 2363119					12/20/2007
			EP 2073551 (FI)					12/20/2007
			EP 2073551 (FR)					12/20/2007
			EP 2073551 (GB)					12/20/2007
			EP 2073551 (IT)					12/20/2007
			EP 2073551 (NL)					12/20/2007
EP 2073551 (SE)					12/20/2007			
LTE-026	KPN	CN 101953136		1	3GPP TS26.237 V10.8.0, Sections 4.3, 8.1, 8.2.3, 8.2.3.1, 8.2.3.2, 13, 13.2, 21, 21.1 and 21.1.1, Figures 3, 4, 7, 30 and 46 3GPP TS26.114 V10.8.0, sections 4.1, 6, 6.1, 6.2 and 6.2.1 and Figure 4.1	ISLD-201401-007	12/22/2008	
			JP 4987126	1	3GPP TS 26.237 V10.8.0; Section 4.3, 7, 7.1, 8, 8.1, 8.2.3, 8.2.3.1, 8.2.3.2, 13, 13.1, 13.2, Figures 3, 4, 7 and 30; 3GPP TS 26.114 V10.8.0; Section 4.1, 6, 6.1, and Figure 4.1 3GPP TS 26.346 V9.15.0; Section 5.2, 5.2.1, 5.2.3, 5.2.3.1, 5.2.4, 5.2.5, 5.2.5.1, 5.2.5.7, and 5.2.5.8	ISLD-201401-007	12/22/2008	
			US 8549151	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	12/22/2008	
			HK 1149861				12/22/2008	
			IN 273904				12/22/2008	
LTE-027	KPN	EP 2567564		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 8.1.14	ISLD-201505-009	5/4/2011	
			DE 602011005344.2					5/4/2011
			EP 2567564 (FI)					5/4/2011
			EP 2567564 (FR)					5/4/2011
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US 9,462,544					5/4/2011			

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-028	KPN	EP 2517495		1	3GPP TS 32.521 V10.2.0: Section 4.1 3GPP TS 32.522 V10.6.0: Section 4.5.3.1 3GPP TS 36.331 V10.12.0: Sections 5.6.5.1, 5.6.5.2, 5.6.5.3, 5.6.6.1, 5.6.6.2 3GPP TS 37.320 V10.4.0: Sections 4.1, 5.1.1.1, 5.1.1.3.2, 5.1.1.3.3, 5.1.3, 5.1.4, 7, Annex A	ISLD-201505-005	12/16/2010
		JP 5536230		1, 6	3GPP TS 36.304 V10.7.0 Section 8 3GPP TS 36.306 V10.10.0, Section 4.3.13 3GPP TS 36.331 V10.15.0, Section 5.6.6.1; 5.6.6.2; 6.2.2; 5.6.5 3GPP TS 32.422 V10.13.0: Section 4.1.1.2a, 4.1.5 and 6; Figure 6.2 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: Section 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 and Annex A	ISLD-201505-005	12/16/2010
		US 8626175		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	12/16/2010
			DE 602010016869.7				12/16/2010
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			CN102960015				12/16/2010
LTE-029	3G LICENSING	US 7313518		10	3GPP TS 22.243 V8.0.0 sections 1, 3.1, 4, 5 and 7, figure 1, as referring to ETSI ES 202 050 V1.1.5 3GPP TS 26.243 V8.0.0 section 2 as referring to ETSI 202 050 V1.1.5 3GPP TS 26.177 V8.0.0 section 2 as referring to ETSI 202 050 V1.1.5 3GPP ETSI ES 202 050 V1.1.5 sections 4, 5.1.1, 5.1.3, 5.1.4 and 5.1.5, and figures 4.1, 5.1 and 5.2	ISLD-201409-019 ISLD-201409-020 ISLD-201409-021	11/19/2001
			BR PI0116844				11/19/2001
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			DE 60142490.5				11/19/2001
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Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-029	3G LICENSING		EP 01356461 (TR)				11/19/2001
LTE-030	3G LICENSING	CN 200680017858		1	3GPP TS 23.060 V8.9.0 (2010-06): 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 (2010-06): 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 (2009-06): 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 (2010-09): 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	3/22/2006
		EP 1869840		1	3GPP TS 23.060 V8.9.0 (2010-06): 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 (2010-06): 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 (2009-06): 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 (2010-09): 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	3/22/2006
		JP 4933528		1	3GPP TS 23.060 V8.9.0 (2010-06): 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 (2010-06): 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 (2009-06): 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 (2010-09): 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	3/22/2006
			CN 201210078576				3/22/2006
			DE 602006014383.4				3/22/2006
			ES 2346469				3/22/2006
			EP 01869840 (FR)				3/22/2006
			EP 01869840 (GB)				3/22/2006
			EP 01869840 (IT)				3/22/2006
			EP 01869840 (NL)				3/22/2006
			EP 01869840 (PL)				3/22/2006
			EP 01869840 (TR)				3/22/2006
			US 8570936				3/22/2006

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-031	3G LICENSING	CN 200780009678		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	1/15/2007
		US 8194608		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	1/15/2007
		US 8565159		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	1/15/2007
			DE 602007039854.1				1/15/2007
			ES 2532612				1/15/2007
			HK 1219367				1/15/2007
			EP 1974576 (FR)				1/15/2007
			EP 1974576 (GB)				1/15/2007
			EP 1974576 (IT)				1/15/2007
			EP 2958292 (DE)				1/15/2007
			EP 2958292 (ES)				1/15/2007
			EP 2958292 (FR)				1/15/2007
			EP 2958292 (GB)				1/15/2007
			EP 2958292 (IT)				1/15/2007
			EP 2958292 (NL)				1/15/2007
LTE-032	3G LICENSING	CN 200680016492		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	3/23/2006
		JP 5384934		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	3/23/2006
		JP 5491650		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	3/23/2006
		US 8072923		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	3/23/2006
		US 8971246		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	3/23/2006
LTE-033	3G LICENSING	CN 200680017166		1	3GPP TS 23.060 V8.9.0 (2010-07): subclauses 4, 9.2.1A, 9.2.2.1; and Figs 63 and 64 3GPP TS 23.401 V8.15.0 (2012-01): 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 (2010-07): subclauses 10.5.6.4; Fig 10.5.137; and Table 10.5.155	ISLD-201211-013 ISLD-201211-014 ISLD-201211-015	3/23/2006

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-033	3G LICENSING	JP 4970422		1	3GPP TS 23.060 V8.9.0 (2010-07): subclauses 4, 9.2.1A, 9.2.2.1; and Figs 63 and 64 3GPP TS 23.401 V8.15.0 (2012-01): 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 (2010-07): subclauses 10.5.6.4; Fig 10.5.137; and Table 10.5.155	ISLD-201211-013 ISLD-201211-014 ISLD-201211-015	3/23/2006
		US 8064384		1	3GPP TS 23.060 V8.9.0 (2010-07): subclauses 4, 9.2.1A, 9.2.2.1; and Figs 63 and 64 3GPP TS 23.401 V8.15.0 (2012-01): 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 (2010-07): subclauses 10.5.6.4; Fig 10.5.137; and Table 10.5.155	ISLD-201211-013 ISLD-201211-014 ISLD-201211-015	3/23/2006
		US 9001732		1	3GPP TS 23.060 V8.9.0 (2010-07): subclauses 4, 9.2.1A, 9.2.2.1; and Figs 63 and 64 3GPP TS 23.401 V8.15.0 (2012-01): 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 (2010-07): subclauses 10.5.6.4; Fig 10.5.137; and Table 10.5.155	ISLD-201211-013 ISLD-201211-014 ISLD-201211-015	3/23/2006
			BE (EP)1861982				3/23/2006
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			DE (EP)1861982				3/23/2006
			ES (EP)1861982				3/23/2006
			FR (EP)1861982				3/23/2006
			GB (EP)1861982				3/23/2006
			IT (EP)1861982				3/23/2006
			NL (EP)1861982				3/23/2006
			PL (EP)1861982				3/23/2006
			SE (EP)1861982				3/23/2006
			TR (EP)1861982				3/23/2006
LTE-034	3G LICENSING	CN 200580025881		1	3GPP TS 29.060 V8.3.0 (2008-03) section 3.1 3GPP TS 23.401 V8.10.0 (2010-06) 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 (2010-06) 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 (2010-09) 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	7/11/2005
		EP 1772030		1	3GPP TS 29.060 V8.3.0 (2008-03) section 3.1 3GPP TS 23.401 V8.10.0 (2010-06) 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 (2010-06) 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 (2010-09) 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	7/11/2005



Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-034	3G LICENSING	US 8179888		1	3GPP TS 29.060 V8.3.0 (2008-03) section 3.1 3GPP TS 23.401 V8.10.0 (2010-06) 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 (2010-06) 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 (2010-09) 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	7/11/2005
			DE 602005004291.1				7/11/2005
			ES 2299050				7/11/2005
			EP 1772030 (FR)				7/11/2005
			EP 1772030 (GB)				7/11/2005
			IN 271359				7/11/2005
			EP 1772030 (IT)				7/11/2005
			US 9237058				7/11/2005
LTE-035	3G LICENSING	CN 101019383		1	3GPP TS 29.060 V8.3.0 (2008-03) section 3.1 3GPP TS 23.401 V8.10.0 (2010-06) 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 (2010-06) 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 (2010-09) 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	6/10/2005
		EP 1771978		1	3GPP TS 29.060 V8.3.0 (2008-03) section 3.1 3GPP TS 23.401 V8.10.0 (2010-06) 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 (2010-06) 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 (2010-09) 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	6/10/2005
		US 7860073		1	3GPP TS 29.060 V8.3.0 (2008-03) section 3.1 3GPP TS 23.401 V8.10.0 (2010-06) 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 (2010-06) 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 (2010-09) 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	6/10/2005
			IN 272738				6/10/2005
			DE 602005007906.8				6/10/2005
			ES 2310358				6/10/2005
			EP 1771978 (FR)				6/10/2005
			EP 1771978 (GB)				6/10/2005
			EP 1771978 (IT)				6/10/2005

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-036	3G LICENSING	CN 200580020466		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-201308-012 ISLD-201308-013 ISLD-201308-014 ISLD-201308-015 ISLD-201308-016	4/19/2005
		EP 1741264		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-201308-012 ISLD-201308-013 ISLD-201308-014 ISLD-201308-015 ISLD-201308-016	4/19/2005
			DE 602005016662.9				4/19/2005
			ES 2333801				4/19/2005
			EP 01741264 (FR)				4/19/2005
			EP 01741264 (GB)				4/19/2005
			IN 255363				4/19/2005
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			US 7907618				4/19/2005
LTE-037	3G LICENSING	US 7995523		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	9/24/2003
			US 8611296				9/24/2003
			CN 01720695				9/24/2003
			JP 4426451				9/24/2003
			JP 4834133				9/24/2003
			DE (EP)1543666				9/24/2003
			DE (EP)1667384				9/24/2003
			ES (EP)1543666				9/24/2003
			ES (EP)1667384				9/24/2003

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date	
<b>LTE-037</b>	3G LICENSING		FR (EP)1543666				9/24/2003	
			FR (EP)1667384				9/24/2003	
			GB (EP)1543666				9/24/2003	
			GB (EP)1667384				9/24/2003	
			IT (EP)1543666				9/24/2003	
			IT (EP)1667384				9/24/2003	
<b>LTE-038</b>	3G LICENSING	CN 200480010345		1	3GPP TS 23.401 V8.10.0 (2010-06): Sections 1, 4.2.2, 4.3.8.2, 5.3.1.1 and 5.3.2.1; Figures 4.2.2-1 and 5.3.2.1-1	ISLD-201308-011	4/16/2004	
		EP 1614270		1	3GPP TS 23.401 V8.10.0 (2010-06): Sections 1, 4.2.2, 4.3.8.2, 5.3.1.1 and 5.3.2.1; Figures 4.2.2-1 and 5.3.2.1-1	ISLD-201308-011	4/16/2004	
		JP 4579905		1	3GPP TS 23.401 V8.10.0 (2010-06): Sections 1, 4.2.2, 4.3.8.2, 5.3.1.1 and 5.3.2.1; Figures 4.2.2-1 and 5.3.2.1-1	ISLD-201308-011	4/16/2004	
		US 7839825		1	3GPP TS 23.401 V8.10.0 (2010-06): Sections 1, 4.2.2, 4.3.8.2, 5.3.1.1 and 5.3.2.1; Figures 4.2.2-1 and 5.3.2.1-1	ISLD-201308-011	4/16/2004	
		US 8130725		1	3GPP TS 23.401 V8.10.0 (2010-06): Sections 1, 4.2.2, 4.3.8.2, 5.3.1.1 and 5.3.2.1; Figures 4.2.2-1 and 5.3.2.1-1	ISLD-201308-011	4/16/2004	
		US 8406198		1	3GPP TS 23.401 V8.10.0 (2010-06): Sections 1, 4.2.2, 4.3.8.2, 5.3.1.1 and 5.3.2.1; Figures 4.2.2-1 and 5.3.2.1-1	ISLD-201308-011	4/16/2004	
				CN 201210055880				4/16/2004
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				ES 2347652				4/16/2004
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				EP 1614270 (GB)				4/16/2004
				EP 1614270 (IT)				4/16/2004
				EP 1614270 (NL)				4/16/2004
				EP 1614270 (PL)				4/16/2004
		EP 1614270 (TR)				4/16/2004		
<b>LTE-039</b>	3G LICENSING	CN 200480006637		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	3/10/2004	

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-039	3G LICENSING	EP 1602215		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	3/10/2004
		IN 227148		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	3/10/2004
		JP 5248586		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	3/10/2004
			DE 602004023182.7				3/10/2004
			EP 01602215 (FR)				3/10/2004
			EP 01602215 (GB)				3/10/2004
			KR 1007005				3/10/2004
			US 7640017				3/10/2004
			US 8023946				3/10/2004
LTE-040	3G LICENSING	EP 1636961		1	3GPP TS 23.060 V8.13.0 (2011-06): Sections 1, 3.1, 4, 5.4.0, 5.4.1.5, 9.2.1A, 9.2.3.0, 9.2.3.2A, 9.2.3.2, 15.3.0 and 15.3.1; Figures 2a, 71c, 71a and 71b 3GPP TS 23.401 V8.14.0 (2011-06): Sections 1, 3.1, 4.1, 4.2.1, 4.3.1, 4.3.2.1, 4.3.3.1, 4.3.2.2, 4.4.3.1, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2 and 5.4.3; Figures 4.2.1-1, 4.2.1-2, 4.7.2.2-1 and 5.4.3-1 3GPP TS 23.402 V8.9.0 (2010-06): Section 4.3.3.3 IETF RFC 5213 (2008-08; included by reference in 3GPP TS 23.402): Sections 2.2, 3, 5.3.1, 6.10.5 and 8.1 IETF RFC 3775 (2004-06; included by reference in IETF RFC 5213): Abstract and section 11.7.2	ISLD-201211-016 ISLD-201211-017 ISLD-201211-018	5/17/2004

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-040	3G LICENSING	IN 228935		1	3GPP TS 23.060 V8.13.0 (2011-06): Sections 1, 3.1, 4, 5.4.0, 5.4.1.5, 9.2.1A, 9.2.3.0, 9.2.3.2A, 9.2.3.2, 15.3.0 and 15.3.1; Figures 2a, 71c, 71a and 71b 3GPP TS 23.401 V8.14.0 (2011-06): Sections 1, 3.1, 4.1, 4.2.1, 4.3.1, 4.3.2.1, 4.3.3.1, 4.3.2.2, 4.4.3.1, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2 and 5.4.3; Figures 4.2.1-1, 4.2.1-2, 4.7.2.2-1 and 5.4.3-1 3GPP TS 23.402 V8.9.0 (2010-06): Section 4.3.3.3 IETF RFC 5213 (2008-08; included by reference in 3GPP TS 23.402): Sections 2.2, 3, 5.3.1, 6.10.5 and 8.1 IETF RFC 3775 (2004-06; included by reference in IETF RFC 5213): Abstract and section 11.7.2	ISLD-201211-016 ISLD-201211-017 ISLD-201211-018	5/17/2004
		JP 4511529		1	3GPP TS 23.060 V8.13.0 (2011-06): Sections 1, 3.1, 4, 5.4.0, 5.4.1.5, 9.2.1A, 9.2.3.0, 9.2.3.2A, 9.2.3.2, 15.3.0 and 15.3.1; Figures 2a, 71c, 71a and 71b 3GPP TS 23.401 V8.14.0 (2011-06): Sections 1, 3.1, 4.1, 4.2.1, 4.3.1, 4.3.2.1, 4.3.3.1, 4.3.2.2, 4.4.3.1, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2 and 5.4.3; Figures 4.2.1-1, 4.2.1-2, 4.7.2.2-1 and 5.4.3-1 3GPP TS 23.402 V8.9.0 (2010-06): Section 4.3.3.3 IETF RFC 5213 (2008-08; included by reference in 3GPP TS 23.402): Sections 2.2, 3, 5.3.1, 6.10.5 and 8.1 IETF RFC 3775 (2004-06; included by reference in IETF RFC 5213): Abstract and section 11.7.2	ISLD-201211-016 ISLD-201211-017 ISLD-201211-018	5/17/2004
		US 7860037		1	3GPP TS 23.060 V8.13.0 (2011-06): Sections 1, 3.1, 4, 5.4.0, 5.4.1.5, 9.2.1A, 9.2.3.0, 9.2.3.2A, 9.2.3.2, 15.3.0 and 15.3.1; Figures 2a, 71c, 71a and 71b 3GPP TS 23.401 V8.14.0 (2011-06): Sections 1, 3.1, 4.1, 4.2.1, 4.3.1, 4.3.2.1, 4.3.3.1, 4.3.2.2, 4.4.3.1, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2 and 5.4.3; Figures 4.2.1-1, 4.2.1-2, 4.7.2.2-1 and 5.4.3-1 3GPP TS 23.402 V8.9.0 (2010-06): Section 4.3.3.3 IETF RFC 5213 (2008-08; included by reference in 3GPP TS 23.402): Sections 2.2, 3, 5.3.1, 6.10.5 and 8.1 IETF RFC 3775 (2004-06; included by reference in IETF RFC 5213): Abstract and section 11.7.2	ISLD-201211-016 ISLD-201211-017 ISLD-201211-018	5/17/2004
			EP 01636961 (CH)				5/17/2004
			CN 200480016891.4				5/17/2004
			DE 602004003146.1				5/17/2004
			ES 2276301				5/17/2004
			EP 01636961 (FR)				5/17/2004
			EP 01636961 (GB)				5/17/2004
			EP 01636961 (IT)				5/17/2004
			EP 01636961 (LI)				5/17/2004
			EP 01636961 (SE)				5/17/2004
			BR PI0411577				5/17/2004
LTE-041	3G LICENSING	CN 200780010663		20	3GPP TS 23.327 V8.4.0 (2009-09): 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 (2008-12): 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 (2011-12): Section 6.3	ISLD-201308-032 ISLD-201308-033 ISLD-201308-034	3/24/2006

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-041	3G LICENSING	EP 1838044		20	3GPP TS 23.327 V8.4.0 (2009-09): 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 (2008-12): 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 (2011-12): Section 6.3	ISLD-201308-032 ISLD-201308-033 ISLD-201308-034	3/24/2006
			DE 602006027416.5				3/24/2006
			ES 2381853				3/24/2006
			EP 01838044 (FR)				3/24/2006
			EP 01838044 (GB)				3/24/2006
			EP 01838044 (IT)				3/24/2006
			US 9413681				3/24/2006
			JP 5809648				3/24/2006
			JP 6063998				3/24/2006
LTE-042	3G LICENSING	US 8184646		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	3/19/2007
			CN 200780010562				3/19/2007
			US 9166824				3/19/2007
			DE (EP)1999907				3/19/2007
			ES (EP)1999907				3/19/2007
			FR (EP)1999907				3/19/2007
			GB (EP)1999907				3/19/2007
			IT (EP)1999907				3/19/2007
			NL (EP)1999907				3/19/2007
LTE-043	3G LICENSING	CN 200480029734		1	3GPP TS 23.204 V8.5.0, Sections 5.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.3.1.1, 5.3.2, 6.1 and 6.4.	ISLD-201109-011 ISLD-201109-012 ISLD-201308-035 ISLD-201308-036	10/7/2004
		EP 1671501		1	3GPP TS 23.204 V8.5.0, Sections 5.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.3.1.1, 5.3.2, 6.1 and 6.4	ISLD-201109-011 ISLD-201109-012 ISLD-201308-035 ISLD-201308-036	10/7/2004
		IN 250080		1	3GPP TS 23.204 V8.5.0, Sections 5.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.3.1.1, 5.3.2, 6.1 and 6.4.	ISLD-201109-011 ISLD-201109-012 ISLD-201308-035 ISLD-201308-036	10/7/2004
		JP 4702853		1	3GPP TS 23.204 V8.5.0, Sections 5.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.3.1.1, 5.3.2, 6.1 and 6.4.	ISLD-201109-011 ISLD-201109-012 ISLD-201308-035 ISLD-201308-036	10/7/2004
		US 8364180		1	3GPP TS 23.204 V8.5.0, Sections 5.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.3.1.1, 5.3.2, 6.1 and 6.4.	ISLD-201109-011 ISLD-201109-012 ISLD-201308-035 ISLD-201308-036	10/7/2004

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-043	3G LICENSING	US 8526983		1	3GPP TS 23.204 V8.5.0, Sections 5.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.3.1.1, 5.3.2, 6.1 and 6.4.	ISLD-201109-011 ISLD-201109-012 ISLD-201308-035 ISLD-201308-036	10/7/2004
			DE 602004015819.4				10/7/2004
			ES 2311849				10/7/2004
			EP 1671501 (FR)				10/7/2004
			EP 1671501 (GB)				10/7/2004
			EP 1671501 (IT)				10/7/2004
LTE-044	3G LICENSING	AU 729163		18	3GPP TS 21.111 V7.1.0 (2008-06): Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0 (2008-09): Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1 (2007-06): Section 8.1 ETSI TS 102.221 V7.4.0 (2006-01): 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	1/19/1998
		CA 2280150		18	3GPP TS 21.111 V7.1.0 (2008-06): Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0 (2008-09): Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1 (2007-06): Section 8.1 ETSI TS 102.221 V7.4.0 (2006-01): 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	1/19/1998
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		EP 0960542		18	3GPP TS 21.111 V7.1.0 (2008-06): Sections 1, 4, 5.1, 5.2, 6.1, 11.2 3GPP TS 31.102 V7.13.0 (2008-09): Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1 (2007-06): Section 8.1	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	1/19/1998
		IN 208486		18	3GPP TS 21.111 V7.1.0 (2008-06): Sections 1, 4, 5.1, 5.2, 6.1 and 11.2 3GPP TS 31.102 V7.13.0 (2008-09) : Sections 4.4.2, 4.7, 5.1.1.1 and 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1 (2007-06): Section 8.1 ETSI TS 102.221 V7.4.0 (2006-01): 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	1/19/1998
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LTE-045	3G LICENSING	CN 100466718		8	3GPP TS 22.279 V7.1.0: Sections 1, 2, 3.1, 6 and 8 3GPP TS 23.279 V7.7.0: Sections 8.1, 8.3.1 and 8.3.2; Figures 8-1, 8.3-1 and 8.3-2 3GPP TS 23.228 V7.16.0: Sections 4.13.2 and 4.13.3; Figure 4.13-1 3GPP TS 24.173 V9.1.0: Sections 4.2, 5.1 and 5.2 3GPP TS 24.229 V7.28.0: Sections 5.1, 5.1.2A.1, 6.1.2, 6.1.3, 7.9.2, 7.2A.8.1, 7.2A.8.2, 7.2A.9.1, 7.2A.9.2, 7.9.2 and 7.9.3 3GPP TS 24.279 V7.7.0: Sections 6.3.1.8, 6.3.1.9, 7.3.1.3, 7.3.1.4, A.1, A.2, A.3, 7.3.1.8 and 7.3.1.9	ISLD-201308-0029 ISLD-201308-0030 ISLD-201308-0031	10/16/2001			
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LTE-049	SISVEL	EP 852885		12	3GPP TS23.401 V8.18.0 (2013-04): 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	9/25/1996			
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LTE-049	SISVEL		NZ 318789				9/25/1996
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LTE-050	SISVEL	EP 1119997		15	3GPP TS 23.003 V8.17.0 (2012-12): Sections 2.1, 2.8, 2.8.1 3GPP TS 23.401 V8.18.0 (2013-04): Section 5.3.7; Figure 5.3.7-1	ISLD-201305-003	10/5/1999
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LTE-051	SISVEL	EP 2139272		1	3GPP TS 23.401 V8.18.0 (2013-03): Sections 5.3.2, 5.3.2.1; Table 5.3.2.1-1	ISLD-200812-008	10/13/2000
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LTE-052	SISVEL	EP 1807956		1	3GPP TS 36.201 V8.3.0 (2009-03): Sections 4.2.1, 3GPP TS 36.212 V8.8.0 (2010-01): 5.2, 5.2.1, 5.2.2, 5.2.2.6 3GPP TS 36.213 V8.8.0 (2009-09): 7.2, 7.2.1, 7.2.2, 7.2.3, 7.2.4; Tables 7.2.1-1, 7.2.2-1, 7.2.3-0, 7.2.3-1	ISLD-201305-003	10/13/2005
		US 7283499		1	3GPP TS 36.201 V8.3.0 (2009-03): Sections 4.1.2, 4.2.1 3GPP TS 36.212 V8.8.0 (2009-12): Sections 4.2, 5, 5.3.2; Figure 5.3.2-1 3GPP TS 36.213 V8.8.0 (2009-09): Sections 7.2, 7.2.1, 7.2.2, 7.2.3, 7.2.4; Table: 7.2.3-1	ISLD-201305-003	10/15/2004
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LTE-054	SISVEL	EP 1051870		18	3GPP TS 24.301 V8.10.0 (2011-06): Sections 6.4.3.1, 6.4.3.2, 6.4.3.4, 8.3.17.1, 8.3.18.1, 8.3.18.2, 9.3.2, 9.9.4.3, 9.9.4.4; Figure 6.4.3.2.1; Tables 8.3.17.1, 8.3.18.1		8/31/1998
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LTE-054	SISVEL		FI 106172				1/29/1998
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LTE-057	SISVEL	US 7894443		16	3GPP TS 36.322 v10.0.0 (2012-12): 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-201305-003	8/22/2006
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LTE-059	3G LICENSING	EP 1869841		1	3GPP TS 23.060 V8.7.0 (2010-01): 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 (2009-01): 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 (2010-03): 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 (2010-01): 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 (2010-06): 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 (2010-04): 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 (2010-06): 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	3/22/2006
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LTE-063	3G LICENSING	EP 1690361		12	3GPP TS 36.211 v10.7.0 (2013-04): Sections 6.3, 6.3.3, 6.3.4.3	ISLD-201607-001	12/2/2004	
		US 7933564		1	3GPP TS 36.211 V10.7.0 (2013-04): 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		12/2/2004	
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LTE-064	KPN	JP 5436577		17	3GPP TS23.228 v12.4.0 Annex U.1.0, U.1.2, U.2.2, Fig. U.1.2-1 3GPP TS 24.371 v12.9.0, Sections 1, 2, 4.1 5D.1, 5D.2 and 7.1	ISDL-2016-006	1/19/2010	
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			US 9,667,669					
LTE-065	3G LICENSING	EP 2597926		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		10/9/2008	
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LTE-071	KPN	EP 0785692		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	7/23/1997	
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LTE-071	KPN		EP 0785692 (NL)			ISLD-201507-025	7/23/1997
			NL 1001561			ISLD-201507-025	7/23/1997
			EP 0785692 (SE)			ISLD-201507-025	7/23/1997
LTE-072	ORANGE	EP 1362447		1	3GPP TS 36.300 V11.10.0 (2014-06): Sections 3, 3.2, 5, 5.1, 5.1.5 3GPP TS 36.212 V10.8.0 (2013-06): 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 (2013-02): 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 (2010-12): Sections 4, 4.2, 4.2.3		2/14/2002
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			KR100874059				2/14/2002
			JP4184798				2/14/2002
			CN100495956				2/14/2002
			US7170948				2/14/2002
			LTE-073	MITSUBISHI ELECTRIC		JP 04814388	
LTE-074	MITSUBISHI ELECTRIC		CN ZL200580049106.X				3/14/2005
			JP 04527149				3/14/2005
			US 07937084				3/14/2005
LTE-075	MITSUBISHI ELECTRIC		CN ZL200480021840.0				7/29/2004
			CN ZL200910175854.2				9/23/2009
			CN ZL200910175853.8				9/23/2009
			JP 04810578				1/9/2009
			KR 10-0926289				7/29/2004
			KR 10-0951332				4/1/2009
			KR 10-0951330				4/1/2009
			US 08125963				7/29/2004
			US 08385295				2/9/2012
EP 2194660 (DE)				3/24/2010			
EP 2194660 (FR)				3/24/2010			
LTE-076	MITSUBISHI ELECTRIC		JP 04097129				8/8/2002
			JP 05037305				11/9/2007
			JP 04772838				8/1/2008

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LTE-077	MITSUBISHI ELECTRIC	US 9635656		3	3GPP TS 36.213 V9.0.1 (2009-12): Sections 7.2, 7.2.2 3GPP TS 36.201 V9.0.0 (2009-12): Section 5.5 3GPP TS 36.321 V9.1.0 (2009-12): Section 5.4.4		12/27/2006
			CN ZL200680049892.8				12/27/2006
			IN 263874				12/27/2006
			JP 4819129				12/27/2006
			JP 5160667				6/2/2011
			US 9019983				12/27/2006
LTE-078	MITSUBISHI ELECTRIC	z	CN ZL200780053418.7				12/27/2007
			JP 04948601				12/27/2007
			JP 05111568				6/29/2010
			US 08249635				12/27/2007
			US 08412248				5/17/2012
			EP 3125451 (BE)				9/16/2016
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			EP 3125451 (DE)				9/16/2016
			EP 3125451 (FR)				9/16/2016
			EP 3125451 (GB)				9/16/2016
			EP 3125451 (HU)				9/16/2016
			EP 3125451 (IE)				9/16/2016
			EP 3125451 (LI)				9/16/2016
			EP 3125451 (LU)				9/16/2016
			EP 3125451 (MC)				9/16/2016
			EP 3125451 (MT)				9/16/2016
			EP 3125451 (PT)				9/16/2016
			EP 3125451 (RO)				9/16/2016
			EP 3125451 (SI)				9/16/2016
			EP 3125451 (TR)				9/16/2016
LTE-079	MITSUBISHI ELECTRIC	CN ZL201210065257.6		2	3GPP TS 36.213 V9.0.1 (2009-12): Sections 7.2, 7.2.3, 7.3, 10.1		3/5/2012
		JP 4841630		2	3GPP TS 36.213 V9.0.1 (2009-12): Sections 7.2, 10.1		7/30/2014
			IN 262788				4/27/2007
			JP 05289531				10/4/2011
			KR 10-1213062				4/27/2007
			US 08149749				4/27/2007
			EP 2031775 (DE)				4/27/2007
			EP 2031775 (FR)				4/27/2007
			EP 2031775 (GB)				4/27/2007
LTE-080	MITSUBISHI ELECTRIC		CN ZL201210178008.8				5/29/2012
			JP 04637848				9/8/2004
			JP 05048094				3/12/2010
			US 08149765				9/8/2004
			US 08675546				2/7/2012
LTE-081	MITSUBISHI ELECTRIC		JP 04902592				5/9/2008

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-081	MITSUBISHI ELECTRIC		JP 05037706				3/11/2011
LTE-082	MITSUBISHI ELECTRIC	US 9113445		1	3GPP TS 36.300 V10.6.0 (2011-12): Sections 6, 6.1, 6.1.2, 11.3; Figure 6-2 3GPP TS 36.306 V10.4.0 (2011-12): Title; Sections 4, 4.1, 4.2.5; Table 4.1-3 3GPP TS 36.321 V10.4.0 (2011-12): 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 (2010-12): 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 (2011-12): Sections 5.6.3.1, 5.6.3.3, 6.3.6; Figure 5.6.3.1-1		4/30/2004
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			CN ZL201010534930.7				10/25/2010
			CN ZL201010534929.4				10/25/2010
			JP 04510006				4/30/2004
			JP 04763085				7/20/2010
			JP 05026577				12/2/2010
			JP 05220903				8/2/2011
			US 08583156				4/30/2004
LTE-083	MITSUBISHI ELECTRIC		AU 2008212453				2/1/2008
			AU 2011201566				4/6/2011
			AU 2014204428				7/15/2014
			CN ZL200880000038.1				2/1/2008
			IN 268040				2/1/2008
			JP 04698734				2/1/2008
			JP 05550697				10/12/2012
			KR 10-1018316				2/1/2008
			KR 10-1359411				8/11/2010
			KR 10-1473229				8/26/2013
			KR 10-1796712				5/16/2014
			RU 2432716				2/1/2008
			RU 05295309				6/22/2011
			US 9161181				2/1/2008
			EP 2117243 (EP)				2/1/2008
LTE-084	MITSUBISHI ELECTRIC	US 9713068		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		10/26/2009
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			CN ZL200980143951.1				10/26/2009

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LTE-084	MITSUBISHI ELECTRIC		JP 05538802				10/2/2009
			JP 5726351				4/30/2014
			KR 10-1279523				10/26/2009
			RU 2461149				10/26/2009
			RU 2511040				5/29/2012
			RU 2554533				1/29/2014
			RU 2599542				5/6/2015
			US 9877268				7/23/2015
			EP 2346286 (BE)				10/26/2009
			EP 2346286 (CH)				10/26/2009
			EP 2346286 (CY)				10/26/2009
			EP 2346286 (DE)				10/26/2009
			EP 2346286 (FR)				10/26/2009
			EP 2346286 (GB)				10/26/2009
			EP 2346286 (HU)				10/26/2009
			EP 2346286 (IE)				10/26/2009
			EP 2346286 (LI)				10/26/2009
	EP 2346286 (LU)				10/26/2009		
	EP 2346286 (MK)				10/26/2009		
	EP 2346286 (MT)				10/26/2009		
	EP 2346286 (PT)				10/26/2009		
	EP 2346286 (TR)				10/26/2009		
LTE-085	MITSUBISHI ELECTRIC		CN ZL201080044486.9				9/15/2010
			JP 5683474				9/15/2010
			JP 5905533				7/11/2014
			US 08626163				9/15/2010
			US 9615310				11/25/2013
LTE-086	MITSUBISHI ELECTRIC		CN ZL200580049478.2				4/20/2005
			EP 1873925				4/20/2005
			DE 1873925				4/20/2005
			FR 1873925				4/20/2005
			GB 1873925				4/20/2005
			JP 4413966				4/20/2005
			JP 5546379				7/16/2010
			JP 5788053				4/11/2014
			US 8717912				4/20/2005
			CN ZL200680050128.2				8/9/2006
			IN 00260195				8/9/2006
			JP 4800388				8/9/2006
			JP 5236774				4/22/2011
			JP 5602255				1/11/2013
			KR 10-1258130				8/9/2006
	KR 10-1389809				6/24/2010		
	KR 10-1329607				3/4/2011		
	US 8660046				8/9/2006		
LTE-087	MITSUBISHI ELECTRIC		CN ZL200780030693.7				8/9/2007
			JP 4776693				8/9/2007
			US 8165082				8/9/2007



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LTE-087	MITSUBISHI ELECTRIC		US 8942198				4/6/2012
			US 9277561				12/11/2014
			EP 2068578 (DE)				8/9/2007
			EP 2068578 (FR)				8/9/2007
			EP 2068578 (GB)				8/9/2007
LTE-088	MITSUBISHI ELECTRIC		CN ZL201080006364.0				1/28/2010
			JP 05139543				1/28/2010
			JP 05496311				11/14/2012
			JP 05744266				3/4/2014
			US 9072104				1/28/2010
			US 9357545				5/8/2015
LTE-089	MITSUBISHI ELECTRIC		CN ZL200510063850.7				4/7/2005
			JP 04812323				4/8/2005
			JP 05318038				6/30/2010
			US 07756210				3/29/2005
			US 08265187				4/7/2010
			EP 1585232 (DE)				4/8/2004
			EP 1585232 (FR)				4/8/2004
			EP 1585232 (GB)				4/8/2004
			EP 1585232 (MC)				4/8/2004
LTE-090	MITSUBISHI ELECTRIC		CN ZL200610163544.5				10/12/2006
			JP 04963927				10/13/2006
			JP 05535813				7/29/2010
			JP 05647276				1/25/2013
			US 08073445				9/21/2006
			US 08095136				9/7/2010
			US 08396478				11/10/2011
			EP 1775981 (DE)				10/13/2005
			EP 1775981 (FR)				10/13/2005
			EP 1775981 (GB)				10/13/2005
			EP 2247135 (BG)				8/17/2010
			EP 2247135 (DE)				8/17/2010
			EP 2247135 (FR)				8/17/2010
			EP 2247135 (GB)				8/17/2010
			EP 2247135 (IS)				8/17/2010
			EP 2247136 (BG)				8/17/2010
			EP 2247136 (DE)				8/17/2010
			EP 2247136 (FR)				8/17/2010
EP 2247136 (GB)				8/17/2010			
EP 2247136 (IS)				8/17/2010			
LTE-091	MITSUBISHI ELECTRIC		EP 02134006				6/23/2009
			DE 02134006				6/23/2009
			FR 02134006				6/23/2009
			GB 02134006				6/23/2009
			JP 04852615				9/28/2006
			KR 10-1254268				9/28/2006
			US 08068444				9/28/2006

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LTE-092	MITSUBISHI ELECTRIC		CN ZL200710101661.3				3/19/2007
			US 8073459				3/19/2007
			EP 2276299 (BE)				9/16/2010
			EP 2276299 (CH)				9/16/2010
			EP 2276299 (CY)				9/16/2010
			EP 2276299 (DE)				9/16/2010
			EP 2276299 (FR)				9/16/2010
			EP 2276299 (GB)				9/16/2010
			EP 2276299 (HU)				9/16/2010
			EP 2276299 (IE)				9/16/2010
			EP 2276299 (LI)				9/16/2010
			EP 2276299 (LU)				9/16/2010
			EP 2276299 (MC)				9/16/2010
			EP 2276299 (PT)				9/16/2010
			EP 2276299 (SI)				9/16/2010
			EP 2276299 (TR)				9/16/2010
			EP 2271161 (BE)				9/17/2010
			EP 2271161 (CH)				9/17/2010
			EP 2271161 (CY)				9/17/2010
			EP 2271161 (CZ)				9/17/2010
			EP 2271161 (DE)				9/17/2010
			EP 2271161 (DK)				9/17/2010
			EP 2271161 (EE)				9/17/2010
			EP 2271161 (FR)				9/17/2010
			EP 2271161 (GB)				9/17/2010
			EP 2271161 (HU)				9/17/2010
			EP 2271161 (IE)				9/17/2010
			EP 2271161 (IT)				9/17/2010
			EP 2271161 (LI)				9/17/2010
			EP 2271161 (LU)				9/17/2010
			EP 2271161 (MC)				9/17/2010
			EP 2271161 (PL)				9/17/2010
			EP 2271161 (PT)				9/17/2010
			EP 2271161 (RO)				9/17/2010
			EP 2271161 (SI)				9/17/2010
			EP 2271161 (SK)				9/17/2010
			EP 2271161 (TR)				9/17/2010
			EP 2268091 (BE)				9/17/2010
			EP 2268091 (CH)				9/17/2010
			EP 2268091 (CY)				9/17/2010
			EP 2268091 (DE)				9/17/2010
			EP 2268091 (FR)				9/17/2010
			EP 2268091 (GB)				9/17/2010
			EP 2268091 (HU)				9/17/2010
			EP 2268091 (IE)				9/17/2010
			EP 2268091 (LI)				9/17/2010
			EP 2268091 (LU)				9/17/2010
			EP 2268091 (MC)				9/17/2010
			EP 2268091 (PT)				9/17/2010
			EP 2268091 (SI)				9/17/2010

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LTE-092	MITSUBISHI ELECTRIC		EP 2268091 (TR)				9/17/2010
LTE-093	MITSUBISHI ELECTRIC	EP 1845678		1, 3	3GPP TS 36.201 V8.3.0 (2009-03): Sections 4.1.1, 4.2.1 3GPP TS 36.212 V8.6.0 (2009-03): Sections 5.2.2.6.2, 5.2.2.6.4 3GPP TS 36.213 V8.6.0 (2009-03): Sections 7.2, 7.2.1		4/14/2006
		EP 2086146		1, 2	3GPP TS 36.201 v 8.3.0 (04-2009): Section 4.1.1, Section 4.2.1 3GPP TS 36.212 v 8.7.0 (05-2009): Section 5.2.2.6.2, Section 5.2.2.6.4 3GPP TS 36.213 v 8.8.0 (09-2009): Section 7.2, Section 7.2.1		2/13/2009
			CN ZL200710096137.1				4/13/2007
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			EP 2256977				9/9/2010
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			JP 04974744				4/16/2007
			JP 05015303				8/6/2010
			JP 05506861				6/6/2012
			DE 2256977				9/9/2010
			FR 2256977				9/9/2010
			GB 2256977				9/9/2010
			DE 2285030				9/9/2010
			FR 2285030				9/9/2010
			GB 2285030				9/9/2010
			EP 1845678 (CH)				4/14/2006
			EP 1845678 (DE)				4/14/2006
			EP 1845678 (ES)				4/14/2006
			EP 1845678 (FI)				4/14/2006
			EP 1845678 (FR)				4/14/2006
			EP 1845678 (GB)				4/14/2006
			EP 1845678 (IE)				4/14/2006
			EP 1845678 (IT)				4/14/2006
			EP 1845678 (LI)				4/14/2006
			EP 1845678 (LU)				4/14/2006
			EP 1845678 (MC)				4/14/2006
			EP 1845678 (NL)				4/14/2006
			EP 1845678 (PL)				4/14/2006
			EP 1845678 (RO)				4/14/2006
			EP 1845678 (SE)				4/14/2006
			EP 1845678 (TR)				4/14/2006
			EP 2086146 (DE)				2/13/2009
			EP 2086146 (ES)				2/13/2009
			EP 2086146 (FI)				2/13/2009
			EP 2086146 (FR)				2/13/2009
			EP 2086146 (GB)				2/13/2009
			EP 2086146 (IT)				2/13/2009
			EP 2086146 (NL)				2/13/2009
			EP 2086146 (PL)				2/13/2009
			EP 2086146 (RO)				2/13/2009
			EP 2086146 (SE)				2/13/2009
			EP 2086146 (TR)				2/13/2009
			EP 2256976 (CH)				9/9/2010

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LTE-093	MITSUBISHI ELECTRIC		EP 2256976 (DE)				9/9/2010			
			EP 2256976 (FR)				9/9/2010			
			EP 2256976 (GB)				9/9/2010			
			EP 2256976 (IE)				9/9/2010			
			EP 2256976 (LI)				9/9/2010			
			EP 2256976 (LU)				9/9/2010			
LTE-094	MITSUBISHI ELECTRIC	EP 2254259		1, 4	3GPP TS 36.211 V8.8.0 (2009-03): 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 (2009-09): Sections 7.3, 10.1 3GPP TS 36.321 V8.7.0 (2009-09): Sections 5.4.1, 5.4.4, 5.4.5, 7.2.1 3GPP TS 36.331 V8.7.0 (2009-09): Sections 6.3.2		9/22/2006			
			CN ZL200710182191.8				9/21/2007			
			JP 05327734				9/20/2007			
			US 08412210				9/14/2007			
			US 08825067				8/25/2011			
			EP 1903689 (CH)				9/22/2006			
			EP 1903689 (CY)				9/22/2006			
			EP 1903689 (DE)				9/22/2006			
			EP 1903689 (FR)				9/22/2006			
			EP 1903689 (GB)				9/22/2006			
			EP 1903689 (HU)				9/22/2006			
			EP 1903689 (IE)				9/22/2006			
			EP 1903689 (LI)				9/22/2006			
			EP 1903689 (LU)				9/22/2006			
			EP 1903689 (TR)				9/22/2006			
			EP 2254259 (CH)				9/22/2006			
			EP 2254259 (CY)				9/22/2006			
			EP 2254259 (DE)				9/22/2006			
			EP 2254259 (FR)				9/22/2006			
			EP 2254259 (GB)				9/22/2006			
			EP 2254259 (HU)				9/22/2006			
			EP 2254259 (IE)				9/22/2006			
			EP 2254259 (LI)				9/22/2006			
			EP 2254259 (LU)				9/22/2006			
			EP 2254259 (TR)				9/22/2006			
			LTE-095	MITSUBISHI ELECTRIC		EP 1871023 (CH)				6/23/2006
						EP 1871023 (DE)				6/23/2006
EP 1871023 (FR)							6/23/2006			
EP 1871023 (GB)							6/23/2006			
EP 1871023 (LI)							6/23/2006			
LTE-096	MITSUBISHI ELECTRIC		CN ZL201180029113.9				4/4/2011			
			JP 5810151				4/4/2011			
			US 8995374				4/4/2011			
LTE-097	MITSUBISHI ELECTRIC		EP 2136596				8/20/2009			
			DE 2136596				8/20/2009			
			FR 2136596				8/20/2009			

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<b>LTE-097</b>	MITSUBISHI ELECTRIC		GB 2136596				8/20/2009
			JP 5844711				10/26/2012
			JP 5852184				7/2/2014
			US 08027392				11/30/2005
<b>LTE-098</b>	MITSUBISHI ELECTRIC		CN ZL200610075251.1				4/17/2006
			US 08081709				7/13/2010
			EP 1715708 (CH)				4/18/2005
			EP 1715708 (DE)				4/18/2005
			EP 1715708 (FR)				4/18/2005
			EP 1715708 (GB)				4/18/2005
			EP 1715708 (IE)				4/18/2005
			EP 1715708 (LI)				4/18/2005
			EP 1715708 (LU)				4/18/2005
<b>LTE-099</b>	MITSUBISHI ELECTRIC		EP 2023504				8/5/2008
			DE 2023504				8/5/2008
			FR 2023504				8/5/2008
			GB 2023504				8/5/2008
			JP 05089519				7/25/2008
			KR 10-1061685				8/5/2008
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<b>LTE-100</b>	MITSUBISHI ELECTRIC		CN ZL200980115949.3				5/7/2009
			JP 05079098				5/7/2009
			US 8842554				5/7/2008
			EP 2313989 (BE)				5/7/2009
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			EP 2313989 (GB)				5/7/2009
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			EP 2313989 (PT)				5/7/2009
			EP 2313989 (SI)				5/7/2009
EP 2313989 (TR)				5/7/2009			
<b>LTE-101</b>	MITSUBISHI ELECTRIC		CN ZL200980116297.5				5/7/2009
			JP 05079097				5/7/2009
			EP 2294717 (EP)				5/7/2009
<b>LTE-102</b>	MITSUBISHI ELECTRIC		CN ZL200980116094.6				5/7/2009
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<b>LTE-103</b>	MITSUBISHI ELECTRIC		CN ZL200980121915.5				6/9/2009
			JP 5749159				6/9/2009
			JP 5830131				5/14/2014
			KR 10-1561271				6/9/2009
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			EP 2289258 (LI)				6/9/2009
			EP 2289258 (LU)				6/9/2009
			EP 2533600 (CH)				9/5/2012
			EP 2533600 (CY)				9/5/2012
			EP 2533600 (DE)				9/5/2012
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			EP 2533600 (HU)				9/5/2012
EP 2533600 (LI)				9/5/2012			
EP 2533600 (MK)				9/5/2012			
EP 2533600 (MT)				9/5/2012			
EP 2533600 (TR)				9/5/2012			
<b>LTE-104</b>	MITSUBISHI ELECTRIC		CN ZL200980136505.8				7/24/2009
			JP 05420552				7/24/2009
			KR 10-1643434				7/24/2009
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			EP 2333994 (CY)				7/24/2009
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			EP 2333994 (MT)				7/24/2009
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<b>LTE-105</b>	MITSUBISHI ELECTRIC		CN ZL201080010770.4				3/10/2010
			JP 05048867				3/10/2010
			JP 05462327				7/19/2012
			JP 05622950				1/16/2014
<b>LTE-106</b>	MITSUBISHI ELECTRIC		AU 2011215256				2/9/2011
			JP 5806123				2/9/2011
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LTE-106	MITSUBISHI ELECTRIC		EP 2536221 (AL)				2/9/2011	
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LTE-107	MITSUBISHI ELECTRIC		AU 2011246790				4/25/2011	
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LTE-108	MITSUBISHI ELECTRIC		CN ZL201080018936.7				3/23/2010	
			JP 05079139				3/23/2010	
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			JP 06080885				3/24/2015	
			US 8953523				3/23/2010	
			US 9438390				11/6/2014	
			US 9705648				3/18/2016	
LTE-109	MITSUBISHI ELECTRIC		JP 5980124				12/20/2011	
			US 9380563				12/20/2011	
LTE-110	MITSUBISHI ELECTRIC		JP 5922101				3/26/2012	
			JP 6257684				4/13/2016	
			US 9392599				3/26/2012	
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LTE-111	KPN	EP 2486750		1	3GPP TS 36.331 V10.20.0 (2016-12), 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 (2016-08), Sections 10.3.7.13, 10.3.7.23, 10.3.7.33 3GPP TS 36.306 V10.15.0 (2015-12), Sections 4.3.7.1, 4.3.7.9, 4.3.7.11, 4.3.13.1 3GPP TS 37.320 V10.4.0 (2011-12), 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 (2014-06), Sections 4.1.1.6a, 4.1.5, 6 3GPP TS 36.304 V10.8.0 (2014-03), Section 8 3GPP TS 36.300 V10.12.0 (2014-12), Section 22.3.2a			10/5/2010

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			EP 2486750 (FI)				10/5/2010
			EP 2486750 (FR)				10/5/2010
			EP 2486750 (GB)				10/5/2010
			EP 2486750 (IE)				10/5/2010
			EP 2486750 (NL)				10/5/2010
			EP 2486750 (PL)				10/5/2010
			EP 2486750 (SE)				10/5/2010
			JP 5 600 176				10/5/2010
US 8,660,560				10/5/2010			
LTE-112	KPN	EP 2566263		1, 15	3GPP TS 23.682 v13.9.0 (2017-06); Sections 4.5.5, 5.5.1; Figure 5.5.1-1 3GPP TS 23.246 v13.3.0 (2015-12); Sections 4.4.1, 4.4.3.3, 4.4.3.4; Figure 4 3GPP TS 36.331 v13.6.1 (2017-07); Sections 5.8a1.1, 5.8a.2.1, 6.2.2, 6.3.7a; Figure 5.8a.2.1-1		10/5/2010
			EP 2486767				10/5/2010
			JP 5562425				12/12/2012
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LTE-113	KPN	US 9699820		16	3GPP TS 23.303 v12.8.0 (2016-03-15); Sections 5.6.2; Annex A(informative) A.2		8/10/2016
			EP 2893734				8/29/2013
			EP 3079391				8/29/2013
			JP 6072918				8/29/2013
			KR 101692171				8/29/2013
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US 9438572				8/29/2013			
LTE-114	KPN	US 9372098		1, 15, 17, 21	3GPP TS 23.401 v13.8.0 (2016-09); 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 (2016-07); Sections 5.13.4; Figure 5.13.4-1		10/28/2009
			CN ZL200980152983.8				10/28/2009
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LTE-115	KPN	US 9820134		12, 13, 14	3GPP TS 23.303 v13.6.0 (2016-12); 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		1/23/2014
			JP 6145177				1/23/2014