

## 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	US 7471728	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
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LTE-002	AIRBUS DS	EP 1364547	CA 2439566C DE 60209106.3 EP 1364547 (FR) EP 1364547 (GB) EP 1364547 (IT) US 7254393	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
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LTE-003	AIRBUS DS	EP 1198906 (FR)	US 7224683	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
				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
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

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-021	KPN	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 (IS)				2/19/2009
			EP 2250835 (IT)				2/19/2009
			KR 101231986				2/19/2009
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LTE-022	KPN	EP 831613	EP 831613 (BE) EP 831613 (CH) DE 69629564.4 ES 2204993 EP 831613 (FI) EP 831613 (FR) EP 831613 (IE) EP 831613 (IT) EP 831613 (LU) EP 831613 (NL) EP 831613 (SE)	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			
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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	ISLD-201202-010	6/24/1996			
LTE-024	KPN	EP 2299649	CN 102025723 DE 602010002693.0 EP 2299649 (ES) EP 2299649 (FI) EP 2299649 (FR) EP 2299649 (GB) EP 2299649 (HU) EP 2299649 (IT) JP 5237340 EP 2299649 (NL) EP 2299649 (PL) EP 2299649 (SE) US 8601141	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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LTE-025	KPN	EP 2073551	DE 602007012916.8 ES 2363119 EP 2073551 (FI) EP 2073551 (FR) EP 2073551 (GB) EP 2073551 (IT) EP 2073551 (NL) EP 2073551 (SE)	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			
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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			

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date	
LTE-026	KPN	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 IN 273904				12/22/2008	
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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 B.1.14	ISLD-201505-009	5/4/2011	
			DE 602011005344.2				5/4/2011	
			EP 2567564 (FI)				5/4/2011	
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			EP 2567564 (NL)				5/4/2011	
			EP 2567564 (SE)				5/4/2011	
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			US 9,210,590				5/4/2011	
US 9,462,544			5/4/2011					
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
		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	
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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	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 P10116844					11/19/2001
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			DE 60142490.5					11/19/2001
			ES 2347760					11/19/2001
			EP 01356461 (FR)					11/19/2001
			EP 01356461 (GB)					11/19/2001
			HK 1057639					11/19/2001
			EP 01356461 (IT)					11/19/2001
			JP 4210521					11/19/2001
			KR 549133B1					11/19/2001
MX 243041					11/19/2001			
EP 01356461 (NL)					11/19/2001			
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	

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date	
LTE-030	3G LICENSING	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		
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
			EP 01974576 (FR)					1/15/2007
			EP 01974576 (GB)					1/15/2007
			HK 1219367					
			EP 01974576 (IT)					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
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

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date		
LTE-032	3G LICENSING	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		
				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		
				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		
				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		
				JP 4970422					
				US 8064384					
				US 9001732					
					BE (EP)1861982				3/23/2006
					CH (EP)1861982				3/23/2006
					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		

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date			
LTE-034	3G LICENSING	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			
				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	
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										7/11/2005
										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			
				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	
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										6/10/2005
										6/10/2005
										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		
				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
				EP 01741264 (IT)					4/19/2005
				JP 4660539					4/19/2005
				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		
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Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date	
LTE-038	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	
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		EP 1614270 (IT)						4/16/2004
		EP 1614270 (NL)						4/16/2004
EP 1614270 (PL)						4/16/2004		
EP 1614270 (TR)						4/16/2004		
LTE-039	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		
		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	

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-039	3G LICENSING	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		
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			KR 1007005		3/10/2004		
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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
			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

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
LTE-040	3G LICENSING	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	
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BR P10411577			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
			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		
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		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	
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			FR (EP)1999907			3/19/2007	
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			IT (EP)1999907			3/19/2007	
			NL (EP)1999907			3/19/2007	

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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
		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
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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
		CN 98802464.0		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
		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

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date		
LTE-044	3G LICENSING	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		
				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 3GPP 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 ; Table 8.1 and 11.11	ISLD-201011-001 ISLD-201011-002 ISLD-201011-003 ISLD-201011-004	1/19/1998		
				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		
				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 (2013-01) Sections 4.7.1, 4.7.2.2, and Figure 4.7.2.2-1.	ISLD-201308-0029 ISLD-201308-0030 ISLD-201308-0031	10/16/2001		
				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 (2013-01) Sections 4.7.1, 4.7.2.2, and Figure 4.7.2.2-1.	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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			EP 852885 (AT)				9/25/1996
			AU 715225				9/25/1996
			EP 852885 (BE)				9/25/1996
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			DE 69635453.5				9/25/1996
			ES 2250997				9/25/1996
			EP 852885 (FR)				9/25/1996
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			GR 3056241				9/25/1996
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EP 852885 (NL)	9/25/1996						
NO 325994	9/25/1996						
NZ 318789	9/25/1996						
US 6646998	9/25/1996						
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
			EP 1119997 (AT)				10/5/1999
			EP 1119997 (BE)				10/5/1999
			CN 1322453				10/5/1999
			DE 69924130.8				10/5/1999
			ES 2237154				10/5/1999
			FI 106288				10/6/1998
			EP 1119997 (FR)				10/5/1999
			EP 1119997 (GB)				10/5/1999
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			JP 04226786				10/5/1999
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US 7957736	10/5/1999						
LTE-051	SISVEL	EP 2139272 US 7580714		1	3GPP TS 23.401 V8.18.0 (2013-03): Sections 5.3.2, 5.3.2.1; Table 5.3.2.1-1 3GPP TS 23.401 V8.18.0 (2013-03): 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-200812-008	10/13/2000
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		DE 60048549.8	10/13/2000				
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Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date	
LTE-051	SISVEL		EP 2139272 (PT)				10/13/2000	
			EP 2139272 (SE)				10/13/2000	
			GR 3083988				10/13/2000	
			US 7035621				10/13/2000	
			US 7979070				10/13/2000	
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	
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			ES 2471945					10/13/2005
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			EP 1807956 (NL)					10/13/2005
			EP 1807956 (PL)					10/13/2005
			EP 1807956 (PT)					10/13/2005
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	EP 1807956 (SE)					10/13/2005		
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	EP 1807956 (SK)					10/13/2005		
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	US 8031678					10/13/2005		
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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		JP 04002731		17	3GPP TS 24.301 V8.10.0 (2011-06): 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	8/31/1998	
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	DE 69838854.2		8/31/1998					
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LTE-054	SISVEL		EP 1051870 (FR)				1/29/1998
			EP 1051870 (GB)				1/29/1998
			EP 1051870 (IT)				1/29/1998
			EP 1051870 (NL)				8/31/1998
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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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			JP 4875084				8/22/2006
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			EP 1925142 (NL)				8/22/2006
			PK 140978				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 US 7933564		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
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LTE-063	3G LICENSING		KR 10-1092537				
LTE-064	KPN	JP 5436577	CN 102356623 KR 10-1287322 US 9,667,669	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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LTE-065	3G LICENSING	EP 2597926	EP 2597926 (BE) EP 2597926 (CH) DE 602008043679.9 ES 12185549 EP 2597926 (FR) EP 2597926 (GB) EP 2597926 (IE) EP 2597926 (IT) EP 2597926 (NL) EP 2597926 (PL) EP 2597926 (PT) EP 2597926 (RO) EP 2597926 (SE) EP 2597926 (TR) US 8781469 US 9319976 EP 2597926 (AT)	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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ISLD-201507-025							
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LTE-072	ORANGE	EP 1362447	EP1362447 (BE) EP1362447 (CH) EP1362447 (FR) EP1362447 (GB) EP1362447 (IT) EP1362447 (LI)	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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Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date
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			ES2284822				2/14/2002
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			JP4184798				2/14/2002
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			US7170948				2/14/2002
LTE-073	mitsubishi electric		JP 04814388				7/23/2010
LTE-074	mitsubishi electric		CN ZL200580049106.X				3/14/2005
			JP 04527149				3/14/2005
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LTE-075	mitsubishi electric		CN ZL200480021840.0				7/29/2004
			CN ZL200910175854.2				9/23/2009
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			JP 04810578				1/9/2009
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			KR 10-0951330				4/1/2009
			US 08125963				7/29/2004
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LTE-076	mitsubishi electric		JP 04097129				8/8/2002
			JP 05037305				11/9/2007
			JP 04772838				8/1/2008
LTE-077	mitsubishi electric	US 9635656	CN ZL200680049892.8 IN 263874 JP 4819129 JP 5160667 US 9019983	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
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LTE-078	mitsubishi electric		CN ZL200780053418.7				12/27/2007
			EP 3125451				9/16/2016
			JP 04948601				12/27/2007
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LTE-079	mitsubishi electric	CN ZL201210065257.6 JP 4841630	EP 2031775 IN 262788 JP 05289531 KR 10-1213062 US 08149749	2 2	3GPP TS 36.213 V9.0.1 (2009-12): Sections 7.2, 7.2.3, 7.3, 10.1 3GPP TS 36.213 V9.0.1 (2009-12): Sections 7.2, 10.1		3/5/2012
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LTE-080	mitsubishi electric		CN ZL201210178008.8				5/29/2012
			JP 04637848				9/8/2004
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			US 08149765				9/8/2004
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LTE-081	mitsubishi electric		JP 04902592				5/9/2008
			JP 05037706				3/11/2011

Family	Patent Owner	Exemplary Patents	Family Members	Claim	Illustrative sections of the standard	ETSI Declaration	Filing date			
LTE-082	MITSUBISHI ELECTRIC	US 9113445	CN ZL200480042891.1 CN ZL201010534930.7 CN ZL201010534929.4 JP 04510006 JP 04763085 JP 05026577 JP 05220903 US 08583156	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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LTE-083	MITSUBISHI ELECTRIC		AU 2008212453 AU 20111201566 AU 2014204428 CN ZL200880000038.1 IN 268040 JP 04698734 JP 05550697 KR 10-1018316 KR 10-1359411 KR 10-1473229 KR 10-1796712 RU 2432716 RU 05295309 US 9161181				2/1/2008			
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LTE-084	MITSUBISHI ELECTRIC	US 9713068	AU 2009312285 AU 2014201266 AU 2015252029 CN ZL200980143951.1 EP 2346286 JP 05538802 JP 5726351 KR 10-1279523 RU 2461149 RU 2511040 RU 2554533 RU 2599542 US 9877268	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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LTE-085	MITSUBISHI ELECTRIC		CN ZL201080044486.9 JP 5683474 JP 5905533 US 08626163 US 9615310				9/15/2010			
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			EP 1873925				4/20/2005
			DE 1873925				4/20/2005
			FR 1873925				4/20/2005
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			JP 4413966				4/20/2005
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			US 8717912				4/20/2005
			CN ZL200680050128.2				8/9/2006
			IN 00260195				8/9/2006
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			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
			EP 2068578				8/9/2007
			JP 4776693				8/9/2007
			US 8165082				8/9/2007
			US 8942198				4/6/2012
			US 9277561				12/11/2014
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
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LTE-089	MITSUBISHI ELECTRIC		CN ZL200510063850.7				4/7/2005
			EP 1585232				4/8/2004
			JP 04812323				4/8/2005
			JP 05318038				6/30/2010
			US 07756210				3/29/2005
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LTE-090	MITSUBISHI ELECTRIC		CN ZL200610163544.5				10/12/2006
			EP 1775981				10/13/2005
			EP 2247135				8/17/2010
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LTE-091	MITSUBISHI ELECTRIC		EP 02134006				6/23/2009
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LTE-091	MITSUBISHI ELECTRIC		FR 02134006				6/23/2009
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			JP 04852615				9/28/2006
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LTE-092	MITSUBISHI ELECTRIC		CN ZL200710101661.3				3/19/2007
			EP 2276299				9/16/2010
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			EP 2271161				9/17/2010
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			FR 2271161				9/17/2010
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			EP 2268091				9/17/2010
			DE 2268091				9/17/2010
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			US 8073459				3/19/2007
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
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			EP 2086146				2/13/2009
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			TR 1845678				4/14/2006
			DE 2086146				2/13/2009
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DE 2256976				9/9/2010			

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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		
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			LTE-095	MITSUBISHI ELECTRIC		EP 1871023	
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
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			FR 2136596				8/20/2009
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			JP 5844711				10/26/2012
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			US 08027392				11/30/2005
LTE-098	MITSUBISHI ELECTRIC		CN ZL200610075251.1				4/17/2006
			EP 1715708				4/18/2005
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			FR 1715708				4/18/2005
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			US 08081709				7/13/2010
LTE-099	MITSUBISHI ELECTRIC		EP 2023504				8/5/2008
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			JP 05089519				7/25/2008
			KR 10-1061685				8/5/2008
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			US 8086272				8/6/2007
			LTE-100	MITSUBISHI ELECTRIC		CN ZL200980115949.3	
EP 2313989							5/7/2009
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LTE-101	MITSUBISHI ELECTRIC		CN ZL200980116297.5				5/7/2009
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			DE 2294717				5/7/2009
			FR 2294717				5/7/2009
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			JP 05079097				5/7/2009
LTE-102	MITSUBISHI ELECTRIC		CN ZL200980116094.6				5/7/2009
			JP 05199387				5/7/2009
			JP 05631425				2/7/2013
LTE-103	MITSUBISHI ELECTRIC		CN ZL200980121915.5				6/9/2009
			EP 2289258				6/9/2009
			EP 2533600				9/5/2012
			DE 2533600				9/5/2012
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			KR 10-1561271				6/9/2009
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			US 08744342				6/9/2009
LTE-104	MITSUBISHI ELECTRIC		CN ZL200980136505.8				7/24/2009
			EP 2333994				7/24/2009
			JP 05420552				7/24/2009
			KR 10-1643434				7/24/2009
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LTE-105	MITSUBISHI ELECTRIC		CN ZL201080010770.4				3/10/2010
			JP 05048867				3/10/2010
			JP 05462327				7/19/2012
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LTE-106	MITSUBISHI ELECTRIC		AU 2011215256				2/9/2011
			EP 2536221				2/9/2011
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LTE-107	MITSUBISHI ELECTRIC		AU 2011246790				4/25/2011
			CN ZL201180021251.2				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 05721878				3/25/2014
			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
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			US 9392599				3/26/2012
			US 9730213				6/13/2016
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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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				10/5/2010
			JP 5847067				12/12/2012
			US9913072				12/28/2012
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
			KR 101760229				8/29/2013
			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
			EP 2342538				10/28/2009
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
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