

SISVEL 5G MULTIMODE PROGRAM - PATENT BROCHURE

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Patent Owner Abbreviation
3G Licensing: 3G Licensing S.A.
Alfred Consulting: Alfred Consulting LLC
Ariscala: Technology in Ariscala, LLC
Intellectual Discovery: Intellectual Discovery Co., Ltd.
JVCKENWOOD: JVCKENWOOD Corporation
KDDI: KDDI Corporation
KPN: Koninklijke KPN N.V.
MELCO: Mitsubishi Electric Corporation
Siemens: Siemens Aktiengesellschaft
Sisvel International: Sisvel International S.A.
Sisvel SPA: Sisvel S.p.A.
SK Telecom: SK Telecom Co., Ltd.
Telefónica: Telefónica, S.A.
TIM: TIM S.p.A.
UNISOC: UNISOC (Shanghai) Technologies Co., Ltd.
Wilus: Wilus Inc.
Wireless Innovations: Wireless Innovations, LLC

Family code	Patent Owner	Exemplary patent	Illustrative claim(s) and relevant section(s) of the 3G Standard		Illustrative claim(s) and relevant section(s) of the 4G Standard		Illustrative claim(s) and relevant section(s) of the 5G Standard	
ALF001	Alfred Consulting	US10129807			18	3GPP TS 24.008 V14.8.0: Sections 1, 1.5, 1.6, 4.1.1.2, 4.1.1.2.1, 4.1.1.5, 6.1.3.1.1, 9.4.1, 10.5.5.12, 10.5.5.37 3GPP TS 23.009 V14.0.0: Sections 4.3.1, 5, 6, 6.1 3GPP TS 23.401 V14.10.0: Sections 3.1, 4.3.7.4, 4.3.7.4.1, 5.5.1.2.2 3GPP TS 36.300 V14.8.0: Sections 8.7.6, 8.7.7, 19.2.1.9, 19.2.1.12 3GPP TS 45.002 V14.5.0: Sections 6.3.1.2, 7		
		US10609616			14	3GPP TS 23.009 V14.0.0: Sections 4.3.1, 5, 6, 6.1 3GPP TS 23.401 V14.10.0: Sections 3.1, 4.3.7.4.1, 4.3.17.4, 5.5.1.2.2 3GPP TS 24.008 V14.8.0: Sections 1, 1.5, 1.8, 4.1.1.2.1, 4.1.1.2.2, 4.1.1.5, 6.1.3.1.1, 9.4.2, 10.5.5.12n, 10.5.5.37 3GPP TS 36.300 V14.8.0: Sections 19.2.1.9, 19.2.1.12 3GPP TS 36.413 V16.1.0: Sections 8.7.6.1, 8.7.6.2, 8.7.7.1, 8.7.7.2; Figure 8.7.6.2-1, 8.7.7.2-1 3GPP TS 45.002 V14.5.0: Sections 6.3.1.2, 7		
ARI001	Ariscala	KR101458790	1	3GPP TS 25.214 V11.12.0: Sections 6A.4.1, 9, 12.1	1	3GPP TS 36.211 V11.7.0: Sections 6.3.4.2.1, 6.3.4.2.3; Table 6.3.4.2.3-1 3GPP TS 36.213 V11.13.0: Sections 7.1.4, 7.1.5, 7.2, 7.2.3, 7.2.4; Table 7.2.3-0		
ARI002	Ariscala	CNZL201680021262.3			8, 10	3GPP TS 36.213 V14.9.0: Section 7.2 3GPP TS 36.211 V14.9.0: Sections 6.10.5, 6.10.5.1, 6.10.5.2; Tables 6.10.5-1, 6.10.5.2-1 3GPP TS 36.331 V14.9.0: Section 6.3.2		
		CNZL201910119478.9			12	3GPP TS 36.211 V14.9.0: Sections 6.10.5, 6.10.5.1, 6.10.5.2; Figure 6.10.5.1-1; Tables 6.10.5-1, 6.10.5.2-2 3GPP TS 36.213 V14.9.0: Sections 7.2, 7.2.5 3GPP TS 36.331 V14.9.0: Sections 6.3.2		
		KR101955940			13	3GPP TS 36.211 V14.9.0: Sections 6.10.5, 6.10.5.1, 6.10.5.2; Tables 6.10.5-1, 6.10.5.2-1; Figure 6.10.5.2-1 3GPP TS 36.213 V14.9.0: Sections 7.2, 7.2.5 3GPP TS 36.331 V14.9.0: Sections 6.3.2, 6.10.5		
		US10256963			14	3GPP TS 36.211 V14.9.0: Sections 6.10.5, 6.10.5.1, 6.10.5.2; Tables 6.10.5-1, 6.10.5.2-1; Figure 6.10.5.2-1 3GPP TS 36.213 V14.9.0: Sections 7.2, 7.2.5 3GPP TS 36.331 V14.9.0: Sections 6.3.2, 6.10.5		
ARI003	Ariscala	AU2019342135			1	3GPP TS 36.211 v14.13.1: Section 6.10.5; Table 6.10.5-1 3GPP TS 36.213 v14.13.0: Section 7.2 3GPP TS 36.331 v14.13.0: Section 6.3.2		

ARI003	Ariscale	CNZL201980061783.5			1	3GPP TS 36.211 v14.13.1: Section 6.10.5; Table 6.10.5-1 3GPP TS 36.213 v14.13.0: Section 7.2 3GPP TS 36.331 v14.13.0: Section 6.3.2		
		KR102239148			1	3GPP TS 36.211 v14.13.1: Section 6.10.5; Table 6.10.5-1 3GPP TS 36.213 v14.13.0: Section 7.2 3GPP TS 36.331 v14.13.0: Section 6.3.2		
		US10707938			10, 11	3GPP TS 36.211 v14.13.1: Section 6.10.5; Table 6.10.5-1 3GPP TS 36.213 v14.13.0: Section 7.2 3GPP TS 36.331 v14.13.0: Section 6.3.2		
BBY001	3G Licensing	CA2680720					1	3GPP TS 22.011 v16.5.0: Sections 3.2.1, 3.2.2.1, 3.2.2.2 3GPP TS 23.003 v16.4.0: Section 12.1.3GPP TS 23.122 v16.7.0: Sections 1, 1.2, 3.1, 4.4.2, 4.4.3, 4.4.3.1.1, Annex A 3GPP TS 31.102 v16.5.0: Sections 1, 3.3, 4, 4.2.5, 4.2.5.3, 4.2.84 3GPP TS 38.304 v16.2.0: Sections 3.1, 3.2, 5.1, 5.1.1.1, 5.1.1.2 3GPP TS 38.331 v16.2.0: Sections 3.2, 5.2.1, 5.2.2.1, 5.2.2.2.1, 6.2.2, 6.3.2; Figure 5.2.2.1-1
		US8275374					1	3GPP TS 22.011 v16.5.0: Sections 3.2.1, 3.2.2.1, 3.2.2.2 3GPP TS 23.003 v16.4.0: Section 12.1.3GPP TS 23.122 v16.7.0: Sections 1, 1.2, 3.1, 4.4.2, 4.4.3, 4.4.3.1.1, Annex A 3GPP TS 31.102 v16.5.0: Sections 1, 3.3, 4, 4.2.5, 4.2.5.3, 4.2.84 3GPP TS 38.304 v16.2.0: Sections 3.1, 3.2, 5.1, 5.1.1.1, 5.1.1.2 3GPP TS 38.331 v16.2.0: Sections 3.2, 5.2.1, 5.2.2.1, 5.2.2.2.1, 6.2.2, 6.3.2; Figure 5.2.2.1-1
		US8472955	1	3GPP TS 23.122 V8.12.0: Sections 1.2, 4.2, 4.4.3.1.1; Annex A 3GPP TS 22.011 V8.11.0: Sections 1.2, 3.2.2.1 3GPP TS 31.102 V8.11.0: Sections 1, 4.2.84, 4.2.53, 5.1.1.2 3GPP TS 36.331 V8.21.0: Sections 6.1, 6.3.4 3GPP TS 24.301 V8.10.0: Sections 8.2.1.1, 9.9.3.32, 9.9.3.33; Table 8.2.1.1; Figures 9.9.3.32.1, 9.9.3.33.1 3GPP TS 22.101 V8.15.0: Sections A.3			1	3GPP TS 22.011 v16.5.0: Sections 3.2.1, 3.2.2.1, 3.2.2.2 3GPP TS 23.003 v16.4.0: Section 12.1.3GPP TS 23.122 v16.7.0: Sections 1, 1.2, 3.1, 4.4.2, 4.4.3, 4.4.3.1.1, Annex A 3GPP TS 31.102 v16.5.0: Sections 1, 3.3, 4, 4.2.5, 4.2.5.3, 4.2.84 3GPP TS 38.304 v16.2.0: Sections 3.1, 3.2, 5.1, 5.1.1.1, 5.1.1.2 3GPP TS 38.331 v16.2.0: Sections 3.2, 5.2.1, 5.2.2.1, 5.2.2.2.1, 6.2.2, 6.3.2; Figure 5.2.2.1-1
BBY002	3G Licensing	US8879503			1	3GPP TS 24.301 V.11.10.0: Sections 1, 4.3.1, 4.3.2.4, 5.5.1.2.4, 5.5.3.2.4, 8.2.1.1, 8.2.2.6.1, 9.9.3.12A; Tables 4.3.2.4.1, 4.3.2.4.2, 8.2.1.1, 8.2.2.6.1, 9.9.3.12A.1 3GPP TS 24.229 V.11.9.0: Section 5.1.1.2.1, Annex L.3.1.2		
BBY003	3G Licensing	US7463887			1	3GPP TS 36.304 V8.10.0: Sections 1, 5.2.1, 5.2.4.4		
		US8290491			1	3GPP TS 36.304 V8.10.0: Sections 1, 5.2.1, 5.2.4.4	1	3GPP TS 36.304 V8.10.0: Sections 1, 5.2.1, 5.2.4.4
		US8351940			1	3GPP TS 36.304 V8.10.0: Sections 1, 5.2.1, 5.2.4.4	1	3GPP TS 36.304 V8.10.0: Sections 1, 5.2.1, 5.2.4.4
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BBY004	3G Licensing	AU2007221785			1	3GPP TS 24.237 V15.3.0: Sections 1, 4.1, 5.2, 5.3, 9.2.1AA, 9.3.2 3GPP TS 24.292 V15.1.0: Sections 7.2.2, 7.2.6, 7.4.1, 7.4.2.1 3GPP TS 24.229 V15.1.0: Section 5.1.2A.1.1		
		CA2605098			1	3GPP TS 24.237 V15.3.0: Sections 1, 4.1, 5.2, 5.3, 9.2.1AA, 9.3.2 3GPP TS 24.292 V15.1.0: Sections 7.2.2, 7.2.6, 7.4.1, 7.4.2.1 3GPP TS 24.229 V15.1.0: Section 5.1.2A.1.1		
		EP1909451 (DE, FR, GB)			1	3GPP TS 24.237 V15.3.0: Sections 1, 4.1, 5.2, 5.3, 9.2.1AA, 9.3.2 3GPP TS 24.292 V15.1.0: Sections 7.2.2, 7.2.6, 7.4.1, 7.4.2.1 3GPP TS 24.229 V15.1.0: Section 5.1.2A.1.1		
		HK1114980			1	3GPP TS 24.237 V15.3.0: Sections 1, 4.1, 5.2, 5.3, 9.2.1AA, 9.3.2 3GPP TS 24.292 V15.1.0: Sections 7.2.2, 7.2.6, 7.4.1, 7.4.2.1 3GPP TS 24.229 V15.1.0: Section 5.1.2A.1.1		
		IN256206			1	3GPP TS 24.237 V15.3.0: Sections 1, 4.1, 5.2, 5.3, 9.2.1AA, 9.3.2 3GPP TS 24.292 V15.1.0: Sections 7.2.2, 7.2.6, 7.4.1, 7.4.2.1 3GPP TS 24.229 V15.1.0: Section 5.1.2A.1.1		
		JP4772021			1	3GPP TS 24.237 V15.3.0: Sections 1, 4.1, 5.2, 5.3, 9.2.1AA, 9.3.2 3GPP TS 24.292 V15.1.0: Sections 7.2.2, 7.2.6, 7.4.1, 7.4.2.1 3GPP TS 24.229 V15.1.0: Section 5.1.2A.1.1		
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		SG161228			1	3GPP TS 24.237 V15.3.0: Sections 1, 4.1, 5.2, 5.3, 9.2.1AA, 9.3.2 3GPP TS 24.292 V15.1.0: Sections 7.2.2, 7.2.6, 7.4.1, 7.4.2.1 3GPP TS 24.229 V15.1.0: Section 5.1.2A.1.1		
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		EP2184946 (DE, FR, GB, IT, NL, SE)				1	3GPP TS 23.501 V16.6.0: Sections 3.1, 3.2, 4.4.5, 5.6.1 3GPP TS 24.501 V16.6.0: Sections 6.2.3, 6.4.1.1, 6.4.1.2, 6.4.1.5
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IND001	Intellectual Discovery	US8189611		1	3GPP TS 24.301 V11.7.0: Sections 6.5.1.1, 6.5.1.4A		
		KR102024626		1	3GPP TS 36.211 V13.13.0: Sections 6.4.1, 6.8B, 6.8B.1, 6.8B.5 3GPP TS 36.212 V13.10.0: Sections 5.3.3.1.12, 5.3.3.1.13, 7.1 3GPP TS 36.213 V13.16.0: Sections 7.1, 7.1.11 3GPP TS 36.331 V13.15.0: Sections 3.1, 6.2.2		
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IND002	Intellectual Discovery	KR102306320		1	3GPP TS 36.211 V12.9.0: Section 6.11A 3GPP TS 36.331 V12.18.0: Sections 5.3.5.1, 5.5.2.5, 5.5.3.1, 6.3.5, 6.4		
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		IN358033		1	3GPP TS 36.212 V11.7.0: Section 5.3.3.1.5D 3GPP TS 36.213 V11.12.0: Sections 7.1, 7.1.9; Tables 7.1-5, 7.1.9-1 3GPP TS 36.300 V11.14.0: Section 4 3GPP TS 36.331 V11.17.0: Sections 5.3.5.1, 6.2.2, 6.3.2; Figure 5.3.5.1-1		

JKC001	JVCKENWOOD	JP5846513		14	3GPP TS 36.212 V11.7.0: Section 5.3.3.1.5D 3GPP TS 36.213 V11.12.0: Section 7.1.9; Table 7.1.9-1 3GPP TS 36.300 V11.14.0: Section 4 3GPP TS 36.331 V11.17.0: Sections 5.3.5, 5.3.5.1, 6.2.2, 6.3.2; Figure 5.3.5.1-1		
		JP5846521		16	3GPP TS 36.300 V16.6.0: Section 5.1.9 3GPP TS 36.213 V16.7.0: Sections 7.2.1, 7.2.6; Table 7.2.1-1B 3GPP TS 36.331 V16.6.0: Section 6.3.2 3GPP TS 36.305 V16.4.0: Section 3.1		
		JP6512275		1	3GPP TS 36.212 V11.7.0: Section 5.3.3.1.5D 3GPP TS 36.213 V11.12.0: Section 7.1.9; Table 7.1.9-1 3GPP TS 36.300 V11.14.0: Section 4 3GPP TS 36.331 V11.17.0: Sections 5.3.5, 5.3.5.1, 6.2.2, 6.3.2; Figure 5.3.5.1-1		
		KR101516666		16	3GPP TS 36.300 V16.6.0: Section 5.1.9 3GPP TS 36.213 V16.7.0: Sections 7.2; 7.2.1, 7.2.6 3GPP TS 36.331 V16.6.0: Sections 6.2.2, 6.3.2 3GPP TS 36.305 V16.4.0: Section 3.1		
		KR101516667		23	3GPP TS 36.213 V11.12.0: Sections 7.1.9; 7.1.10, 7.2.5; Table 7.1.9-1 3GPP TS 36.300 V11.14.0: Sections 4, 5.1.9 3GPP TS 36.331 V11.17.0: Sections 6.2.2, 6.3.2; Figure 5.3.5.1-1 3GPP TS 36.212 V11.7.0: Section 5.3.3.1.5D 3GPP TS 36.211 V11.7.0: Section 6.2.1		
		US9094145		14	3GPP TS 36.212 V11.7.0: Section 5.3.3.1.5D 3GPP TS 36.213 V11.12.0: Sections 7.1, 7.1.9; Tables 7.1-5, 7.1.9-1 3GPP TS 36.300 V11.14.0: Section 4 3GPP TS 36.331 V11.17.0: Sections 5.3.5.1, 6.2.2, 6.3.2; Figure 5.3.5.1-1		
JKC002	JVCKENWOOD	JP5223409		1	3GPP TS 36.211 V16.7.0: Sections 4.1, 6.11.1.2, 6.11.2.2; Figure 4.1-1 3GPP TS 36.212 V16.6.0: Section 5.3.3.1.3 3GPP TS 36.213 V16.7.1: Sections 4.1, 7.1	1	3GPP TS 38.213 V17.0.0: Section 4 3GPP TS 38.211 V17.0.0: Sections 4.3.1, 4.3.2 3GPP TS 38.214 V17.0.0: Sections 5.1, 5.1.2.1, 5.1.3 3GPP TS 38.331 V16.7.0: Sections 6.3.2
KDD001	KDDI	JP4831605		7	3GPP TS 36.331 V11.17.0: Sections 4.2.1, 5.2.1, 5.2.1.1, 5.2.2, 5.2.2.1, 5.3.3.10, 6.3.1 3GPP TS 24.173 V11.5.0: Sections J.2.1.1 3GPP TS 22.011 V11.5.0: Sections 4.2		
KDD002	KDDI	JP4499177		1	3GPP TS 36.211 V9.1.0: Sections 5.4, 5.4.1, 5.4.2 3GPP TS 36.213 V9.3.0: Sections 7.2.2, 10.1		
		JP4585038		2	3GPP TS 36.211 V9.1.0: Sections 5.4.1, 5.4.2, 7.2		
		US8761145		1	3GPP TS 36.211 V9.1.0: Sections 5.4, 5.4.1, 5.4.2; Tables 5.4.1-2, 5.4.1-3 3GPP TS 36.213 V9.3.0: Sections 7.2.2, 10.1		
		US9025431		1	3GPP TS 36.211 V9.1.0: Sections 5.4, 5.4.1, 5.4.2; Tables 5.4.1-2, 5.4.1-3 3GPP TS 36.213 V9.3.0: Sections 7.2.2, 10.1		
		US9143258		1	3GPP TS 36.211 V9.1.0: Sections 5.4, 5.4.1, 5.4.2; Tables 5.4.1-2, 5.4.1-3 3GPP TS 36.213 V9.3.0: Sections 7.2.2, 10.1		
		US9148245		1	3GPP TS 36.211 V9.1.0: Sections 5.4, 5.4.1, 5.4.2; Tables 5.4.1-2, 5.4.1-3 3GPP TS 36.213 V9.3.0: Sections 7.2.2, 10.1		
		US9160476		1	3GPP TS 36.211 V9.1.0: Sections 5.4, 5.4.1, 5.4.2; Tables 5.4.1-2, 5.4.1-3 3GPP TS 36.213 V9.3.0: Sections 7.2.2, 10.1		
		US9219564		1	3GPP TS 36.211 V9.1.0: Sections 5.4, 5.4.1, 5.4.2; Tables 5.4.1-2, 5.4.1-3 3GPP TS 36.213 V9.3.0: Sections 7.2.2, 10.1		
		US9270402		1	3GPP TS 36.211 V9.1.0: Sections 5.4, 5.4.1, 5.4.2; Tables 5.4.1-2, 5.4.1-3 3GPP TS 36.213 V9.3.0: Sections 7.2.2, 10.1		
KDD003	KDDI	JP4527136		1	3GPP TS 36.211 V14.1.0: Sections 5.4, 5.4.3, 5.5, 5.5.1, 5.5.1.1, 5.5.1.3, 5.5.2, 5.5.2.2		
KDD004	KDDI	US7974203		5	3GPP TS 23.401 V16.9.0: Section 4.7.2.1 3GPP TS 36.321 V16.3.0: Section 5.4.3.1 3GPP TS 36.331 V16.3.0: Sections 5.3.10.3, 6.3.2		
KDD006	KDDI	JP6588135		1	3GPP TS 36.300 V15.3.0: Sections 5.2.3, 10.1.2.8, 10.1.2.8.1; Figure 10.1.2.8.1-1 3GPP TS 36.423 V15.3.0: Sections 9.1.3, 9.1.3.1, 9.1.3.2 3GPP TS 36.331 V15.0.0: Sections 5.5.5, 5.5.5.1, 6.2.2, 6.3.5, 10.2.2; Figure 5.5.5.1-1 3GPP TS 36.221 V16.5.0: Section 6.11		

KDD006	KDDI	JP6799653			1	3GPP TS 36.300 V15.3.0: Sections 5.2.3, 10.1.2.8, 10.1.2.8.1; Figure 10.1.2.8.1-1 3GPP TS 36.423 V15.3.0: Sections 9.1.3, 9.1.3.1, 9.1.3.2 3GPP TS 36.331 V15.0.0: Sections 5.5.5, 5.5.5.1, 6.2.2, 6.3.5, 10.2.2; Figure 5.5.5.1-1		
KDD007	KDDI	CNZL201680026887.9			1	3GPP TS 36.300 V15.3.0: Sections 10.1.5.1, 23.7b; Figure 10.1.5.1-1 3GPP TS 36.321 V15.3.0: Sections 5.1.1, 5.1.2		
		JP6502171			1	3GPP TS 36.300 V15.3.0: Sections 10.1.5.1, 23.7b; Figure 10.1.5.1-1 3GPP TS 36.321 V15.3.0: Sections 5.1.1, 5.1.2		
		JP6656445			1	3GPP TS 36.300 V15.3.0: Sections 10.1.5.1, 23.7b; Figure 10.1.5.1-1 3GPP TS 36.321 V15.3.0: Sections 5.1.1, 5.1.2		
		JP6761502			1	3GPP TS 36.300 V15.3.0: Sections 10.1.5.1, 23.7b; Figure 10.1.5.1-1 3GPP TS 36.321 V15.3.0: Sections 5.1.1, 5.1.2		
KDD008	KDDI	CNZL201680054288.8					9	3GPP TS 38.212 V15.8.0: Sections 7.3.1.2.1, 7.3.1.2.2 3GPP TS 38.213 V15.8.0: Section 9.2.3 3GPP TS 38.300 V15.8.0: Section 5.2.5.4
		JP6633889					9	3GPP TS 38.212 V15.8.0: Sections 7.3.1.2.1, 7.3.1.2.2 3GPP TS 38.213 V15.8.0: Section 9.2.3 3GPP TS 38.300 V15.8.0: Section 5.2.5.4
KDD011	KDDI	JP7247154			1	3GPP TS 36.331 V16.6.0: Sections 1, 5.5.4.1, 6.3.5		
		US11272418			1	3GPP TS 36.331 V16.6.0: Sections 1, 5.5.4.1, 6.3.5		
KPN003*	KPN	EP0716796 (CH, DE, FR, GB, NL, SE)			1, 3	3GPP TS 23.261 V10.2.0: Sections 4, 4.1, 5.2, 5.2.1, 5.2.2, 5.2.3, 5.3, 5.3.1, 5.3.2, 5.3.3 3GPP TS 23.401 V10.4.0: Sections 1, 5, 5.1, 5.1.1, 5.1.1.1, 5.2, 5.2.1, 5.2.2, 5.2.3, 5.3, 5.3.1, 5.3.1.1, 5.3.2, 5.3.2.1, 5.10, 5.10.1, 5.10.2 3GPP TS 23.402 V10.4.0: Section 7.3 3GPP TS 23.234 V11.1.0: Sections 6, 6.1 3GPP TS 23.003 V10.3.0: Sections 2, 2.1 IETF RFC 4306: Section 1.2		
		US5960365			1, 3	3GPP TS 23.261 V10.2.0: Sections 4, 4.1, 5.2, 5.2.1, 5.2.2, 5.2.3, 5.3, 5.3.1, 5.3.2, 5.3.3 3GPP TS 23.401 V10.4.0: Sections 1, 5, 5.1, 5.1.1, 5.1.1.1, 5.2, 5.2.1, 5.2.2, 5.2.3, 5.3, 5.3.1, 5.3.1.1, 5.3.2, 5.3.2.1, 5.10, 5.10.1, 5.10.2 3GPP TS 23.402 V10.4.0: Section 7.3 3GPP TS 23.234 V11.1.0: Sections 6, 6.1 3GPP TS 23.003 V10.3.0: Sections 2, 2.1 IETF RFC 4306: Section 1.2		
KPN004*	KPN	US6212662			1, 2, 3	3GPP TS 36.212 V9.3.0: Section 5, 5.1, 5.1.1, 5.1.2, 5.1.3, Table 5.1.3-1, 5.1.3-3, 5.1.3.2, 5.1.3.2.1, Figure 5.1.3-2, 5.1.3.2.3		
KPN005*	KPN	EP0785692 (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, NL, PT, SE)	1		1	3GPP TS 23.060 V10.14.0: Sections 6.5.0, 6.5.3 3GPP TS 23.261 V10.2.0: Sections 5.3.1, 5.4.1, 5.4.2; Figure 5.4.2-1 3GPP TS 25.211 V10.0.0: Sections 4.1.2.3, 4.2, 5.3.3.10 3GPP TS 43.013 V4.0.0: Sections 1, 4		
KPN006	KPN	CNZL201310055256.8	15, 30, 32		15, 30, 32	3GPP TS 22.368 V10.5.0: Annex A 3GPP TS 23.003 V10.10.0: Section 2.1 3GPP TS 23.060 V10.14.0: Sections 5.3.0, 5.3.1, 5.3.6.4, 5.3.6.2.1, 5.3.6.2.3, 5.3.6.2.4, 5.6.3, 6.5.0, 14.1, 14.2 3GPP TS 24.008 V10.15.0: Sections 4.1.1.7, 4.7.3.1.4, 6.1.3.11, 9.4.4, 13.2.1, 13.2.3		
		EP2250835 (AT, BE, DE, DK, ES, FI, FR, GB, IE, IS, IT, NL, PL, SE)	38		38	3GPP TS 23.060 V10.5.0: Sections 5.3.6.2.3, 5.3.6.2.4 3GPP TS 24.008 V10.4.0: Sections 4.1.1.7, 4.7.3.1.4, 9.4.4, 9.4.4.2; Table 9.4.4		
		EP2337403 (DE, FI, FR, GB, NL, SE)	35		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, 5.6.3, 6.5.0, 14.1, 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 3GPP TS 22.368 v11.3.0: Annex A		
		JP5308459	35		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, 5.6.3, 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, 9.4.22.1 3GPP TS 22.368 V11.3.0: Annex A		

KPN006	KPN	KR101231986	37	3GPP TS 22.368 V11.3.0: Annex A; Figures A-1, A-2, A-3, A-4 3GPP TS 23.003 V10.3.0: Section 2.1 3GPP TS 23.060 V10.5.0: Sections 5.3.0, 5.3.6.2.1, 5.3.6.2.3, 5.3.6.2.4, 5.6.3, 6.5.0, 14.1, 14.2 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-Table 9.4.4				
		US10187904	3, 7	3GPP TS 22.368 V10.5.0: Sections 3.1, 3.2, 4, 7, Annex A 3GPP TS 23.003 V10.10.0: Sections 2.1, 2.2, 2.4 3GPP TS 23.060 V10.14.0: Sections 5.3.0, 5.3.1, 5.3.6.2, 5.3.6.2.3, 5.3.6.2.4, 5.3.6.4, 5.3.13.2, 5.6.3, 6.5.0, 6.5.2, 9.2, 9.2.2, 14.1, 14.2 3GPP TS 24.008 V10.15.0: Sections 4.1.1.7, 4.7.3.1.4, 6.1.3.11, 6.1.3.1.3, 9.4.4, 9.4.4.2, 9.5.3	3, 7	3GPP TS 22.368 V10.5.0: Sections 3.1, 3.2, 4, 7, Annex A 3GPP TS 23.003 V10.10.0: Sections 2.1, 2.2, 2.4 3GPP TS 23.060 V10.14.0: Sections 5.3.0, 5.3.1, 5.3.6.2, 5.3.6.2.3, 5.3.6.2.4, 5.3.6.4, 5.3.13.2, 5.6.3, 6.5.0, 6.5.2, 9.2, 9.2.2, 14.1, 14.2 3GPP TS 24.008 V10.15.0: Sections 4.1.1.7, 4.7.3.1.4, 6.1.3.11, 6.1.3.1.3, 9.4.4, 9.4.4.2, 9.5.3	3, 7	3GPP TS 22.368 v15.0.0: Sections 1, 3.1, 3.2, 4, 5.1.2, 5.1.3, 7.1.1, Annex A; Figures 5-1, 5-2, 5-3 3GPP TS 23.003 v15.8.0: Sections 1, 1.2, 2.1, 2.2, 2.2A, 2.10.1; Figure 1 3GPP TS 23.501 v15.9.0: Sections 4.2.2, 4.2.3, 4.2.4, 5.1, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.3.1, 5.3.2.1, 5.3.2.2.1, 5.3.2.2.2, 5.3.3.3.1, 5.3.3.3.2, 5.6.1, 5.6.2, 5.9.1, 5.9.2, 5.9.3, 5.9.4, 5.19.1, 5.19.7.1, 5.19.7.2, 5.19.7.3, 5.19.7.4, 6.1, 6.2.1, 6.2.2; Figures 4.2.3-1, 4.2.4-1 3GPP TS 24.501 v15.6.0: Sections 3.2, 4.1, 4.2, 5.1.1, 5.1.3.1, 5.1.3.2.1.1, 5.1.3.2.1.2.2, 5.1.3.2.1.2.4, 5.3.2, 5.3.3, 5.3.10, 5.3.11, 6.1.1, 6.2.3, 6.2.7, 6.2.8, 6.3.3.1, 6.3.3.2, 6.3.3.3, 8.3.3.1, 8.3.3.2, 8.3.14.1, 8.3.14.2; Figure 5.1.3.2.1.1.1; Tables 8.3.3.1.1, 8.3.14.1.1
		US9014667	35	3GPP TS 22.368 V10.5.0: Sections 3.1, 3.2, 4, 7.11, Annex A 3GPP TS 23.003 V10.10.0: Sections 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, 14.2 3GPP TS 24.008 V10.15.0: Sections 4.1.1.7, 4.7.3.1.4, 6.1.3.11	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		
KPN007	KPN	CNZL200880121914.6	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	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		
		JP4987126	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, 30 3GPP TS 26.114 V10.8.0; Section 4.1, 6, 6.1; 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, 5.2.5.8	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, 30 3GPP TS 26.114 V10.8.0; Section 4.1, 6, 6.1; 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, 5.2.5.8		
		US8549151	1	3GPP TS 26.234 V10.5.0 Sections 5.6.1, 5.6.2 3GPP TS 26.237 V10.8.0 Sections 4.3, 8.1, 8.2.3.1, 8.2.3.2, 8.2.4.1, 8.2.4.2, 8.2.4.3, 13, 13.1, 13.2, 21, 21.1.1, 21.1.4; Figure 3, 4, 7, 8, 30, 46 3GPP TS 26.114 V10.8.0 Sections 4.1, 6.1, 6.2.1, 6.5; Figure 4.1	1	3GPP TS 26.234 V10.5.0 Sections 5.6.1, 5.6.2 3GPP TS 26.237 V10.8.0 Sections 4.3, 8.1, 8.2.3.1, 8.2.3.2, 8.2.4.1, 8.2.4.2, 8.2.4.3, 13, 13.1, 13.2, 21, 21.1.1, 21.1.4; Figure 3, 4, 7, 8, 30, 46 3GPP TS 26.114 V10.8.0 Sections 4.1, 6.1, 6.2.1, 6.5; Figure 4.1		
KPN008	KPN	EP2517495 (DE, ES, FI, FR, GB, NL, PL, SE)			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		
		USRE48089	6	3GPP TS 37.320 V10.4.0: Sections 1, 3.1, 4.1, 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.3.2, 5.1.1.3.3, Annex A 3GPP TS 32.422 V10.13.0: Section 6 3GPP TS 36.331 V10.12.0: Sections 5.6.6, 5.6.6.1, 5.6.6.2, 6.2.2	6	3GPP TS 37.320 V10.4.0: Sections 1, 3.1, 4.1, 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.3.2, 5.1.1.3.3, Annex A 3GPP TS 32.422 V10.13.0: Section 6 3GPP TS 36.331 V10.12.0: Sections 5.6.6, 5.6.6.1, 5.6.6.2, 6.2.2		
KPN009	KPN	CNZL201080013541.8	1, 5, 12, 13, 14	3GPP TS 23.228 V12.10.0: Sections U.1.0, U.1.2, U.1.3.1 and U.2.2, Figure U.1.2-1 3GPP TS 23.371 V12.4.0: Sections 1, 2, 4.1, 5D.1, 5D.2 and 7.1	1, 5, 12, 13, 14	3GPP TS 23.228 V12.10.0: Sections U.1.0, U.1.2, U.1.3.1 and U.2.2, Figure U.1.2-1 3GPP TS 23.371 V12.4.0: Sections 1, 2, 4.1, 5D.1, 5D.2 and 7.1	1, 5, 12, 13, 14	3GPP TS 23.228 V12.10.0: Sections U.1.0, U.1.2, U.1.3.1 and U.2.2, Figure U.1.2-1 3GPP TS 23.371 V12.4.0: Sections 1, 2, 4.1, 5D.1, 5D.2 and 7.1
		JP5436577	17	3GPP TS 23.228 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, 7.1	17	3GPP TS 23.228 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, 7.1		
		US9667669	1, 15, 16	3GPP TS 23.228 V12.10.0: Sections 4.6.1, U.1.0, U.1.2, U.1.3.1, U.2.2; Figure U.1.2-1 3GPP TS 23.371 V12.4.0: Sections 1, 2, 4.1, 5D.1, 5D.2, 7.1	1, 15, 16	3GPP TS 23.228 V12.10.0: Sections 4.6.1, U.1.0, U.1.2, U.1.3.1, U.2.2; Figure U.1.2-1 3GPP TS 23.371 V12.4.0: Sections 1, 2, 4.1, 5D.1, 5D.2, 7.1	1, 15, 16	3GPP TS 23.228 V12.10.0: Sections 4.6.1, U.1.0, U.1.2, U.1.3.1, U.2.2; Figure U.1.2-1 3GPP TS 23.371 V12.4.0: Sections 1, 2, 4.1, 5D.1, 5D.2, 7.1
KPN010	KPN	US8660560	1, 9	3GPP TS 37.320 V10.4.0: Sections 3.1, 4.1, 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3.2, 5.1.1.3.3; Figure 5.1.1.1-1 3GPP TS 25.484 V10.2.0: Section 4.1; Figure 4.1-1 3GPP TS 32.422 V10.13.0: Sections 4.1.1.2a, 4.1.5, 6; Figure 6.2 3GPP TS 25.331 V10.15.0: Sections 8.5.6.3, 8.5.6.3.1, 8.5.6.3.2, 8.5.6.4.1, 8.5.6.4.2, 8.5.6.4.3, 10.2, 10.2.16da, 10.2.48, 10.2.48.8, 10.2.48.8.6, 10.2.48.8.7, 10.2.48.8.14, 10.2.48.8.15, 10.3.7, 10.3.7.13, 10.3.7.23, 10.3.7.33, 11.3; Figure 8.5.6.4.1-1 3GPP TS 25.304 V10.7.0: Section 5.7 3GPP TS 25.306 V10.10.0: Section 4.7, 4.15	1, 9	3GPP TS 37.320 V10.4.0: Sections 3.1, 4.1, 5.1.1, 5.1.1.1, 5.1.1.2, 5.1.1.3.2, 5.1.1.3.3; Figure 5.1.1.1-1 3GPP TS 25.484 V10.2.0: Section 4.1; Figure 4.1-1 3GPP TS 32.422 V10.13.0: Sections 4.1.1.2a, 4.1.5, 6; Figure 6.2 3GPP TS 25.331 V10.15.0: Sections 8.5.6.3, 8.5.6.3.1, 8.5.6.3.2, 8.5.6.4.1, 8.5.6.4.2, 8.5.6.4.3, 10.2, 10.2.16da, 10.2.48, 10.2.48.8, 10.2.48.8.6, 10.2.48.8.7, 10.2.48.8.14, 10.2.48.8.15, 10.3.7, 10.3.7.13, 10.3.7.23, 10.3.7.33, 11.3; Figure 8.5.6.4.1-1 3GPP TS 25.304 V10.7.0: Section 5.7 3GPP TS 25.306 V10.10.0: Section 4.7, 4.15		
KPN011*	KPN	EP0831613 (BE, CH, DE, ES, FI, FR, GB, IE, IT, LU, NL, SE)			1	3GPP TS 36.212 V8.8.0: Sections 5, 5.1.1, 5.1.2, 5.3.2, 5.3.2.1; Figure 5.3.2-1		

KPN012	KPN	EP2299649 (DE, ES, FI, FR, GB, HU, IT, NL, PL, SE)		1, 15	3GPP TS 23.228 V10.4.0: Sections 3.1, 4.14, 3GPP TS 24.229 V10.3.0: Sections 1, 3.2, 5.3, 5.3.2, 5.3.2.1, 5.3.2.1A, 5.4, 5.4.3.1, 5.4.3.2, 5.7, 5.7.1.3A, 5.7.1.7, 5.7.1.7.25.10, 5.10.1, 5.10.3, 5.10.3.2, 7.2A, 7.2A.6, 7.2A.6.1, 7.2A.6.3 ETSI TS 124 229 V10.3.0		
		JP5237340		1, 15	3GPP TS 23.228 V10.4.0: Sections 3.1, 4.14, 3GPP TS 24.229 V10.3.0: Sections 1, 3.2, 5.3, 5.3.2, 5.3.2.1, 5.3.2.1A, 5.4, 5.4.3.1, 5.4.3.2, 5.7, 5.7.1.3A, 5.7.1.7, 5.7.1.7.25.10, 5.10.1, 5.10.3, 5.10.3.2, 7.2A, 7.2A.6, 7.2A.6.1, 7.2A.6.3 ETSI TS 124 229 V10.3.0		
		US8601141		1, 15	3GPP TS 23.228 V10.4.0: Sections 3.1, 4.14, 3GPP TS 24.229 V10.3.0: Sections 1, 3.2, 5.3, 5.3.2, 5.3.2.1, 5.3.2.1A, 5.4, 5.4.3.1, 5.4.3.2, 5.7, 5.7.1.3A, 5.7.1.7, 5.7.1.7.25.10, 5.10.1, 5.10.3, 5.10.3.2, 7.2A, 7.2A.6, 7.2A.6.1, 7.2A.6.3 ETSI TS 124 229 V10.3.0		
KPN014	KPN	EP2567564 (DE, FI, FR, GB, NL, SE)		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		
KPN015*	KPN	AU684543		1	3GPP TS 22.278 V10.2.0: 2010-09: section 7.2 3GPP TS 23.402 V10.0.0: 2010-06: section 4.5.1, 4.8.2.1		
		EP0716797 (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, NL, PT, SE)		1	3GPP TS 22.278 V10.2.0: Section 7.2 3GPP TS 23.402 V10.0.0: Section 4.5.1, 4.8.2.1		
		JP3525258		1	3GPP TS 22.278 V10.2.0: 2010-09: section 7.2 3GPP TS 23.402 V10.0.0: 2010-06: section 4.5.1, 4.8.2.1		
KPN017	KPN	EP2566263 (DE, FI, FR, GB, IT, NL, PL, SE)		1, 2, 9	3GPP TS 23.003 V13.10.0 (included by reference in TS 23.682 V13.9.0 and in TS 36.331 V13.6.1): Section 15.3 3GPP TS 23.246 V13.3.0 (included by reference in TS 23.682 V13.9.0 and in TS 36.331 V13.6.1): Sections 3.1, 4.4.3, 4.4.3.3, 4.4.3.4; Figure 4 3GPP TS 23.682 V13.9.0: Sections 1, 4.2, 4.5.5, 5.5.1; Figure 5.5.1-1 3GPP TS 36.331 V13.6.1: Sections 5.8.1.1, 5.8.2.1, 6.2.2, 6.3.7; Figure 5.8.2.1-1		
KPN018	KPN	US9699820		16	3GPP TS 23.303 V12.8.0: Sections 5.6.2; Annex A.2		
KPN019	KPN	CNZL200980152983.8		19	3GPP TS 23.401 V13.6.0: Sections 4.11, 5.3.2.1, 5.3.4B, 5.3.4B.1, 5.3.4B.2; Figure 5.3.2.1-1, 5.3.4B.2-1 3GPP TS 23.682 V13.5.0: Section 5.13.4; Figure 5.13.4-1		
		US9372098		1, 15, 17, 21	3GPP TS 23.401 V13.8.0: Sections 4.11, 5.3.4 B, 5.3.4 B.1; Figure 5.3.4. B- 1 3GPP TS 23.682 V13.6.0: Sections 5.13.4; Figure 5.13.4-1	1, 21	3GPP TS 23.401 V16.4.0 (included by reference into TS 23.501): Sections 4.10 3GPP TS 23.501 V16.2.0: Sections 5.31.1, 5.31.4.1 3GPP TS 23.502 V16.2.0: Sections 4.24.1, 4.25.4; Figures 4.24.1-1, 4.25.4- 1 3GPP TS 24.501 V16.4.1: Sections 4.1, 5.3.21, 5.6.1.1, 5.6.1.2.2, 5.6.1.4.2
KPN020	KPN	US9820134		1, 10, 11, 12	3GPP TS 23.303 V13.6.0: Sections 3.1, 3.2, 4.6.4.2a, 5.3.1.2, 5.3.2A, 5.3.3A.2, 5.3.3A.4; Figures 5.3.2A-1, 5.3.3A.2A-1, 5.3.3A.4A-1		
KPN021	KPN	EP2656648 (DE, FI, FR, GB, IT, NL, SE)		1, 9	3GPP TS 33.163 V15.3.0: Sections 3.1, 4.5, 4.6.2.2, 5.1.0, 5.1.3; Figures 4.6.2.2-1; Table: 5.1.3-1		
KPN022	KPN	US9907101				1, 12, 19	3GPP TS 23.501 v15.4.0: Sections 1, 3.1, 3.2, 4.2.1, 4.2.2, 5.1, 5.2.1, 5.3.1, 5.3.2.1, 5.3.2.2.1, 5.3.2.2.2, 5.6.1, 5.6.2, 8.2.2.1, 8.2.2.2; Figure 8.2.2.2-1 3GPP TS 23.502 v15.4.0: Sections 4.2.2.2.1, 4.2.2.2.2, 4.3.2.1, 4.3.2.2.1, 5.2.2.2.1, 5.2.2.2.2, 5.2.3.3.1, 5.2.3.3.2; Figures 4.2.2.2-1, 4.3.2.2.1-1; Tables 5.2.2.2-1, 5.2.3.3.1-1 3GPP TS 38.202 v15.3.0: Sections 5, 5.1.1; Figure 5.1.1-1
KPN023	KPN	EP2377337 (DE, FR, GB, IT, NL)				1, 12	3GPP TS 33.501 V15.0.0: Section 3.2, 6.1.1.1, 6.1.1.4.1, 6.1.1.4.2, 6.1.2, 6.1.3.2.0, Annex A.4
		US8881235				1,10	3GPP TS 33.501 V15.0.0: Section 4.1, 6.1.1.1, 6.1.1.4.1, 6.1.1.4.2, 6.1.2, 6.1.3.2; Annex A4; Figure 6.1.2-1
LGE001*	3G Licensing	CNZL200410049109.0	1, 3	3GPP TS 25.211 V6.10.0: Sections 5.2, 5.2.1, 5.2.1.1; Figure 1; Table 3			
		EP1850511 (DE, ES, FI, FR, GB, IT, NL, SE)	1	3GPP TS 25.211 V6.10.0: Sections 5.2, 5.2.1, 5.2.1.1; Figure 1; Table 3			
		EP2081306 (DE, ES, FI, FR, GB, IT, NL, SE)	1	3GPP TS 25.211 V6.10.0: Sections 5.2, 5.2.1, 5.2.1.1; Figure 1; Table 3			
		JP4318963	1	3GPP TS 25.211 V6.10.0: Sections 5.2, 5.2.1, 5.2.1.1; Figure 1; Table 3			

LGE001*	3G Licensing	US7496132	1	3GPP TS 25.211 V6.10.0: Sections 5.2, 5.2.1, 5.2.1.1; Figure 1; Table 3			
LGE002	3G Licensing	EP1483850 (DE, FR, GB, IT, NL, SE)	1	3GPP TS 25.212 V6.10.0: Section 4.7.1.2; Table 14			
		GB2412553	1	3GPP TS 25.212 V6.10.0: Section 4.7.1.2; Table 14			
		HK1084252	1	3GPP TS 25.212 V6.10.0: Section 4.7.1.2; Table 14			
		IN201131	1	3GPP TS 25.212 V6.10.0: Section 4.7.1.2; Table 14			
		JP4383887	1	3GPP TS 25.212 V6.10.0: Section 4.7.1.2; Table 14			
		US7319718	15	3GPP TS 25.212 V6.10.0: Section 4.7.1.2; Table 14			
LGE004	3G Licensing	AU2005249137	1	3GPP TS 25.331 V6.26.0: Sections 8.1.1.6.5, 10.3.5.2a, 10.3.6.55			
		CNZL200580017591.2	1	3GPP TS 25.331 V6.26.0: Sections 8.1.1.6.5, 10.3.5.2a, 10.3.6.55			
		IN253908	1	3GPP TS 25.331 V6.26.0: Sections 8.1.1.6.5, 10.3.5.2a, 10.3.6.55			
		KR101141326	1	3GPP TS 25.331 V6.26.0: Sections 8.1.1.6.5, 10.3.5.2a, 10.3.6.55			
		MX261740	1	3GPP TS 25.331 V6.26.0: Sections 8.1.1.6.5, 10.3.5.2a, 10.3.6.55			
		RU2346392	1	3GPP TS 25.331 V6.26.0: Sections 8.1.1.6.5, 10.3.5.2a, 10.3.6.55			
		US7580388	1	3GPP TS 25.331 V6.26.0: Sections 8.1.1.6.5, 10.3.5.2a, 10.3.6.55			
		US7715344	1	3GPP TS 25.331 V6.26.0: Sections 8.1.1.6.5, 10.3.5.2a, 10.3.6.55			
LGE006	3G Licensing	AU2005227794	10	3GPP TS 25.211 V6.7.0: Sections 4.1.1.2, 5.3.3.14; Figure 26C 3GPP TS 25.309 V6.5.0: Section 9.1 3GPP TS 25.321 V6.8.0: Sections 8.1.2, 11.8.1.4			
		MX269368	16	3GPP TS 25.211 V6.7.0: Sections 4.1.1.2, 5.3.3.14; Figure 26C 3GPP TS 25.309 V6.5.0: Section 9.1 3GPP TS 25.321 V6.8.0: Sections 8.1.2, 11.8.1.4			
		RU2381633	16	3GPP TS 25.211 V6.7.0: Sections 4.1.1.2, 5.3.3.14; Figure 26C 3GPP TS 25.309 V6.5.0: Section 9.1 3GPP TS 25.321 V6.8.0: Sections 8.1.2, 11.8.1.4			
		US7551625	1	3GPP TS 25.211 V6.7.0: Sections 4.1.1.2, 5.3.3.14; Figure 26C 3GPP TS 25.309 V6.5.0: Section 9.1 3GPP TS 25.321 V6.8.0: Sections 8.1.2, 11.8.1.4			
LGE009	3G Licensing	AU2005287986	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		BRPI0516317.0	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		CNZL200580033248.7	1, 21	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		EP1794987 (DE, ES, FI, FR, IT, NL, SE)	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		EP2252037 (DE, FR, GB, NL)	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		IN283724	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		JP4965723	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		KR101141650	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		US7649907	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
		US7830913	1	3GPP TS 25.301 V6.6.0: Sections 5.3.1.1.2.1; Figure 4 3GPP TS 25.321 V6.18.0: Sections 9.1.5; Figures 9.1.5.1, 9.1.5.2			
LGE011	3G Licensing	US8923237	1	3GPP TS 25.322 V7.10.0: Sections 1, 3.2, 4.2, 4.2.1, 4.2.1.2, 4.2.1.2.2, 8, 8.1, 8.2, 9.2.2.3, 9.5, 9.6, 9.7.10; Figure 4.3a; Table 8.1			
		US9078254	1	3GPP TS 25.322 V7.10.0: Sections 1, 3.2, 4.2, 4.2.1, 4.2.1.2, 4.2.1.2.2, 8, 8.1, 8.2, 9.2.2.3, 9.5, 9.6, 9.7.10; Figure 4.3a; Table 8.1			
		US9179460	1	3GPP TS 25.322 V7.10.0: Sections 1, 3.2, 4.2, 4.2.1, 4.2.1.2, 4.2.1.2.2, 8, 8.1, 8.2, 9.2.2.3, 9.5, 9.6, 9.7.10; Figure 4.3a; Table 8.1			
		US9504030	1	3GPP TS 25.322 V7.10.0: Sections 1, 3.2, 4.2, 4.2.1, 4.2.1.2, 4.2.1.2.2, 8, 8.1, 8.2, 9.2.2.3, 9.5, 9.6, 9.7.10; Figure 4.3a; Table 8.1			
LGE015	3G Licensing	US9319198	3	3GPP TS 25.214 V6.11.0: Sections 3.2, 4.2.4.4, 6B, 6B.1 3GPP TS 25.321 V6.18.0: Sections 9.2.5, 9.2.5.1 3GPP TS 25.433 V6.17.0: Sections 9.1.17			
		US9923697	4	3GPP TS 25.214 V6.11.0: Sections 3.2, 4.2.4.4, 6B, 6B.1 3GPP TS 25.321 V6.18.0: Sections 9.2.5, 9.2.5.1 3GPP TS 25.433 V6.17.0: Sections 9.1.17			
LGE019	3G Licensing	EP1315356 (DE, FI, FR, GB, IT, NL, SE)	13	3GPP TS 25.323 V6.11.0: Section 5.1.2.3 3GPP TS 25.322 V6.12.0: Sections 8.1, 8.2; Table 8.1			
		IN206735	14	3GPP TS 25.323 V6.11.0: Section 5.1.2.3 3GPP TS 25.322 V6.12.0: Sections 8.1, 8.2; Table 8.1			
		KR100765122	30	3GPP TS 25.323 V6.11.0: Section 5.1.2.3 3GPP TS 25.322 V6.12.0: Sections 8.1, 8.2; Table 8.1			
		US7486699	13	3GPP TS 25.323 V6.11.0: Section 5.1.2.3 3GPP TS 25.322 V6.12.0: Sections 8.1, 8.2; Table 8.1			

LGE023	3G Licensing	AU2004307900	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
		BRPI0414892.4	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
		EP1683282	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
		(DE, FI, FR, GB, IT, NL)						
		IN257749	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
		JP4599361	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
		KR1011158912	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
		RU2360363	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
		US7593407	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
		US7809000	1	3GPP TS 25.321 V6.18.0: Section 11.6.2.3.2				
LGE027*	3G Licensing	US7656803	1	3GPP TS 25.301 V8.7.0: Sections 5.1; Figure 2 3GPP TS 25.321 V8.17.0: Section 11.1 3GPP TS 25.331 V8.6.0: Section 14.4.2				
LGE032	3G Licensing	CNZL01131011.1	37	3GPP TS 25.322 V7.10.0: Sections 4.2.1.3, 9.2.2.1, 9.7.8; Figure 4.4, 9.19, 9.20				
		KR100365356	2	3GPP TS 25.322 V7.10.0: Sections 4.2.1.3, 9.2.2.1, 9.7.8; Figure 4.4, 9.19, 9.20				
		US7154873	12	3GPP TS 25.322 V7.10.0: Sections 4.2.1.3, 9.2.2.1, 9.7.8; Figure 4.4, 9.19, 9.20				
		US8325692	4	3GPP TS 25.322 V7.10.0: Sections 4.2.1.3, 9.2.2.1, 9.7.8; Figure 4.4, 9.19, 9.20				
LGE034	3G Licensing	CNZL02103099.5	41	3GPP TS 25.321 V6.18.0: Sections 9.2.5.2.1, 9.2.5.3.1, 11.8.1.3 3GPP TS 25.212 V6.10.0: Sections 4.11.2; Table 17				
		US7215653	37	3GPP TS 25.321 V6.18.0: Sections 9.2.5.2.1, 9.2.5.3.1, 11.8.1.3 3GPP TS 25.212 V6.10.0: Sections 4.11.2; Table 17				
LGE036	3G Licensing	US9635142			9	3GPP TS 36.331 V8.21.0: Sections 5.3.10.3, 6.3.2 3GPP TS 36.323 V8.6.0: Sections 5.5.1	9	3GPP TS 38.323 v15.6.0: Sections 4.4., 5.7.1, 5.7.2, 5.7.3, 5.7.5; Table 5.7.1-1 3GPP TS 38.331 v15.6.0: Title; Sections 1, 3.2, 5.3.5.1, 5.3.5.6.1, 5.3.5.6.5, 6.2.2, 6.3.2; Figure 5.3.5.1-1
LGE037*	3G Licensing	US8451818	1	3GPP TS 25.322 V8.9.0: Sections 4.2, 4.2.1.1, 4.2.1.1.1, 4.2.1.2, 4.2.1.2.1, 4.2.1.3, 9.2.1.3; Figures 4.2, 4.3, 4.4, 9.2				
LGE038*	3G Licensing	US7782833			1	3GPP TS 36.321 V8.12.0: Sections 1, 3.2, 4.2.1, 4.3.1, 4.3.2, 4.4, 4.5, 4.5.1, 4.5.2, 4.5.3, 4.5.3.1, 4.5.3.2, 6.1.1, 6.1.2, 6.2.1; Figures 4.2.1.1, 4.5.3.1-1, 4.5.3.2-1, 6.1.2-1, 6.1.2-2, 6.1.2-3; Tables 4.4-1, 4.5.1-1, 4.5.2-1, 4.5.3.1-1, 4.5.3.2-1 3GPP TS 36.322 V8.8.0: Sections 3.2, 4.2.1, 4.3.2; Figure 4.2.1-1		
LGE041	3G Licensing	JP5685564			1	3GPP TS 36.321 V8.12.0: Sections 5.3.2.1, 5.3.2.2 3GPP TS 36.212 V8.8.0: Section 5.2.3.1 3GPP TS 36.213 V8.8.0: Section 10.1	1	3GPP TR 21.905 v15.1.0: Section 4 3GPP TS 38.213 v15.12.0: Sections 9.1, 9.1.2, 9.1.2.1 3GPP TS 38.321 v15.12.0: Sections 3.1, 3.2, 5.3.1, 5.3.2.1, 5.3.2.2 3GPP TS 38.213 v15.12.0: Sections 9.2, 9.2.6
		US8130819			1	3GPP TS 36.321 V8.12.0: Sections 5.3.2.1, 5.3.2.2 3GPP TS 36.212 V8.8.0: Section 5.2.3.1 3GPP TS 36.213 V8.8.0: Section 10.1	1.2	3GPP TR 21.905 v15.1.0: Section 4 3GPP TS 38.213 v15.12.0: Sections 9.1, 9.1.2, 9.1.2.1 3GPP TS 38.321 v15.12.0: Sections 3.1, 3.2, 5.3.1, 5.3.2.1, 5.3.2.2 3GPP TS 38.213 v15.12.0: Sections 9.2, 9.2.6
LNG001	Sisvel International	CNZL201410090475.4			1	3GPP TS 36.212 V12.3.0: Sections 5.3.3, 5.3.3.1.1, 5.3.3.1.8 3GPP TS 36.213 V12.4.0: Sections 7.1, 8.0; Table 8-2 3GPP TS 36.306 V12.3.0: Sections 4.3.4, 4.3.4.28		
		EP3537814			1	3GPP TS 36.212 V12.3.0: Sections 5.3.3, 5.3.3.1.1, 5.3.3.1.8 3GPP TS 36.213 V12.4.0: Sections 7.1, 8.0; Table 8-2 3GPP TS 36.306 V12.3.0: Sections 4.3.4, 4.3.4.28		
		KR102251839			1	3GPP TS 36.212 V12.3.0: Sections 5.3.3, 5.3.3.1.1, 5.3.3.1.8 3GPP TS 36.213 V12.4.0: Sections 7.1, 8.0; Table 8-2 3GPP TS 36.306 V12.3.0: Sections 4.3.4, 4.3.4.28		
		US10498520			1, 11	3GPP TS 36.213 V12.4.0: Sections 7.1, 8.0; Table 8-2 3GPP TS 36.306 V12.3.0: Sections 4.3.4.28 3GPP TS 36.212 V12.3.0: Sections 5.3.3, 5.3.3.1.1, 5.3.3.1.8		
		US9973324			1, 11	3GPP TS 36.212 v12.3.0: Sections 5.3.3, 5.3.3.1.1, 5.3.3.1.8 3GPP TS 36.213 v12.4.0: Sections 7.1, 8.0; Table 8-2 3GPP TS 36.306 v12.3.0: Section 4.3.4		
LNG002	Sisvel International	CNZL201410852934.8			1, 5, 9, 13	3GPP TS 36.212 V13.0.0: Sections 1, 5.3.3, 5.3.3.1, 5.3.3.1.1, 5.3.3.1.2, 5.3.3.1.3, 5.3.3.1.3A, 5.3.3.1.4A, 5.3.3.1.5, 5.3.3.1.5A, 5.3.3.1.5B, 5.3.3.1.5C, 5.3.3.1.5D, 5.3.3.1.8 3GPP TS 36.331 V13.1.0: Sections 1, 4.1, 5.3.5.1, 6.2.2, 6.3.2, 6.3.4, 6.4; Figures 5.3.5.1-1, 5.3.5.1-2 3GPP TS 36.213 V13.1.0: Sections 7.1, 8.0		
		EP3240345			1	3GPP TS 36.212 V13.0.0: Sections 1, 5.3.3, 5.3.3.1, 5.3.3.1.1, 5.3.3.1.2, 5.3.3.1.3, 5.3.3.1.3A, 5.3.3.1.4A, 5.3.3.1.5, 5.3.3.1.5A, 5.3.3.1.5B, 5.3.3.1.5C, 5.3.3.1.5D, 5.3.3.1.8 3GPP TS 36.331 V13.1.0: Sections 1, 4.1, 5.3.5.1, 6.2, 6.2.2, 6.3.2, 6.3.4, 6.4, 8.0; Figures 5.3.5.1-1, 5.3.5.1-2 3GPP TS 36.213 V13.1.0: Sections 7.1, 8.0 3GPP TS 23.003 V8.17.0: Section 7.1	1	3GPP TS 38.212 v15.8.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.1.2, 7.3.1.2.2; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v15.9.0: Section 10.1 3GPP TS 38.300 v15.9.0: Sections 5.4.1, 7.1, 7.7 3GPP TS 38.331 v15.9.0: Sections 3.1, 3.2, 5.1.2, 5.1.3, 5.3.3.1, 5.3.5.1, 5.3.5.5.1, 5.3.5.5.9, 6.2, 6.3.2, 6.4; Figures 5.3.3.1-1, 5.3.5.1-1, 5.3.5.1-2

LNG002	Sisvel International	KR102483737			1	3GPP TS 36.212 V13.0.0: Sections 1, 5.3.3, 5.3.3.1, 5.3.3.1.1, 5.3.3.1.2, 5.3.3.1.3, 5.3.3.1.3A, 5.3.3.1.4A, 5.3.3.1.5, 5.3.3.1.5A, 5.3.3.1.5B, 5.3.3.1.5C, 5.3.3.1.5D, 5.3.3.1.8 3GPP TS 36.331 V13.1.0: Sections 1, 4.1, 5.3.5.1, 6.2, 6.2.2, 6.3.2, 6.3.4, 6.4, 8.0; Figures 5.3.5.1-1, 5.3.5.1-2 3GPP TS 36.213 V13.1.0: Sections 7.1, 8.0 3GPP TS 23.003 V8.17.0: Section 7.1	1	3GPP TS 38.212 v15.8.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.1.2, 7.3.1.2.2; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v15.9.0: Section 10.1 3GPP TS 38.300 v15.9.0: Sections 5.4.1, 7.1, 7.7 3GPP TS 38.331 v15.9.0: Sections 3.1, 3.2, 5.1.2, 5.1.3, 5.3.3.1, 5.3.5.1, 5.3.5.5.1, 5.3.5.5.9, 6.2, 6.3.2, 6.4; Figures 5.3.3.1-1, 5.3.5.1-1, 5.3.5.1-2
		US10412748			1	3GPP TS 36.212 V13.0.0: Sections 5.3.3, 5.3.3.1, 5.3.3.1.1, 5.3.3.1.2, 5.3.3.1.3 3GPP TS 36.331 V13.1.0: Sections 6.2, 6.2.2, 6.3.2, 6.3.4, 6.4, 8.0 3GPP TS 23.003 V8.17.0: Section 7.1	1,9	3GPP TS 38.212 v15.8.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.1.2, 7.3.1.2.2; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v15.9.0: Section 10.1 3GPP TS 38.300 v15.9.0: Sections 5.4.1, 7.1, 7.7 3GPP TS 38.331 v15.9.0: Sections 3.1, 3.2, 5.1.2, 5.1.3, 5.3.3.1, 5.3.5.1, 5.3.5.5.1, 5.3.5.5.9, 6.2, 6.3.2, 6.4; Figures 5.3.3.1-1, 5.3.5.1-1, 5.3.5.1-2
LNG003	Sisvel International	US9749969			1, 9	3GPP TS 36.331 V13.1.0: Sections 3.1, 3.2, 4.2.2, 5.2.1.1, 5.2.2.1, 5.3.3.1, 6.2.2, 6.3.1, 6.3.2; Figures 5.2.2.1-1, 5.3.3.1-1 3GPP TS 36.213 V12.5.0: Sections 5.1.2, 5.1.2.1, 5.1.4, 5.1.4.1, 5.1.4.2 3GPP TS 36.101 V12.5.0: Sections 6.2.5		
LNG004	Sisvel International	CNZL201510040667.9			1, 8	3GPP TS 36.321 V14.3.0: Sections 5.4.4 3GPP TS 36.331 V14.3.0: Sections 3.1, 6.3.2 3GPP TS 36.213 V14.7.0: Sections 10, 10.1, 10.1.1, 10.1.5		
		US10362566			1	3GPP TS 36.321 V14.3.0: Sections 3.1, 3.2, 5.4, 5.4.4 3GPP TS 36.331 V14.3.0: Sections 3.1, 6.3, 6.3.2 3GPP TS 36.213 V14.7.0: Sections 10, 10.1, 10.1.5	1, 7	3GPP TS 38.101-1 v16.9.0: Section 6.1 3GPP TS 38.202 v16.2.0: Sections 6, 6.1; Tables 6.1-1, 6.1-2 3GPP TS 38.211 v16.7.0: Sections 4.1, 4.3.1, 4.3.2, 4.4.2, 4.4.3, 4.4.4.1, 4.4.5, 4.5, 6.1.1, 6.2, 6.3.2.1; Table 6.3.2.1-1 3GPP TS 38.213 v16.7.0: Sections 3.3, 7.2, 9, 9.2, 9.2.1, 9.2.2, 9.2.4, 9.2.5, 9.2.5.1, 9.2.5.2; Tables 9.2.5-1, 9.2.5-2, 9.2.5.2-1 3GPP TS 38.321 v16.6.0: Section 5.4.4 3GPP TS 38.331 v16.6.0: Sections 3.1, 3.2, 4.2.1, 5.1.2, 5.3.3.1, 5.3.5.1, 5.3.5.5.1, 5.3.13.1, 6.2, 6.3.2; Figures 4.2.1-1, 4.2.1-2, 5.3.3.1-1, 5.3.5.1-1, 5.3.5.1-2, 5.3.13.1-1
LNG005	Sisvel International	US10064176			1, 6, 9	3GPP TS 36.331 V12.5.0: Sections 5.1.1, 5.10.1, 5.10.1a, 5.10.2.1, 5.10.2.2, 5.10.7.1, 5.10.7.4, 6.3.1, 6.3.2, 6.5.1, 6.5.2, Figures 5.10.2-1, 5.10.7.1-1, 5.10.7.1-2; 5.10.7.1-3 3GPP TS 36.221 V12.5.0: Sections 4, 4.2; Table 4.2-2 3GPP TS 23.303 V12.4.0: Sections 1, 4.4.1.1, 4.4.2, 4.5.1.1.2.3.1, 4.5.6		
LNG006	Sisvel International	CNZL201510698366.5			1, 17	3GPP TS 36.211 V14.3.0: Sections 4.1, 4.2, 5.2.3, 6.2.3, 10.1.2.1, 10.1.2.3, 10.2.2.1, 10.2.5.1, 10.2.7, 10.2.7.1, 10.2.7.1.1, 10.2.7.1.2, 10.2.7.2, 10.2.7.2.1, 10.2.7.2.2; Tables 5.2.3-1, 6.2.3-1, 10.1.2.1-1, 10.2.5.1-1, 10.2.7.1.1-1 3GPP TS 36.213 V14.3.0: Sections 16.4, 16.4.1, 16.4.1.3, 16.5.1, 16.5.1.1, 16.6; Table 16.4.1.3-1, 16.4.1.3-2, 16.5.1.1-2, 16.5.1.1-3, 16.6-1 3GPP TS 36.331 V14.3.0: Sections 3.1, 5.2.1.1, 5.2.1.2a, 6.7.2, 6.7.3.2; Figure 5.2.2.1-1 3GPP TS 36.212 V14.3.0: Sections 6.1, 6.4.3, 6.4.3.1, 6.4.3.2; Table 6.1-3		
		US10826665			1	3GPP TS 36.211 V14.3.0: Sections 4.1, 4.2, 5.2.3, 6.2.3, 10.1.2.1, 10.1.2.3, 10.2.2.1, 10.2.5.1, 10.2.7, 10.2.7.1, 10.2.7.1.1, 10.2.7.1.2, 10.2.7.2, 10.2.7.2.1, 10.2.7.2.2; Tables 5.2.3-1, 6.2.3-1, 10.1.2.1-1, 10.2.5.1-1, 10.2.7.1.1-1 3GPP TS 36.213 V14.3.0: Sections 16.4, 16.4.1, 16.4.1.3, 16.5.1, 16.5.1.1, 16.6; Table 16.4.1.3-1, 16.4.1.3-2, 16.5.1.1-2, 16.5.1.1-3, 16.6-1 3GPP TS 36.331 V14.3.0: Sections 3.1, 5.2.1.1, 5.2.1.2a, 6.7.2, 6.7.3.2; Figure 5.2.2.1-1 3GPP TS 36.212 V14.3.0: Sections 6.1, 6.4.3, 6.4.3.1, 6.4.3.2; Table 6.1-3		
LNG007	Sisvel International	CNZL201610121604.0			1, 17	3GPP TS 36.213 V15.3.0: Sections 7.1, 7.3, 7.3.1, 10.1, 10.1.1, 10.1.2.1, 10.1.2.2.2, 10.1.2.2.3; Table 10.1-1 3GPP TS 36.211 V15.1.0: Sections 4.1; Figure 4.1-1; Table 4.1-1 3GPP TS 36.212 V15.2.1: Sections 5.3.3.1.3, 5.3.3.1.17, 5.3.3.1.18, 5.3.3.1.19, 5.3.3.1.20, 5.3.3.1.21, 5.3.3.1.22, 5.3.3.1.23; Table 5.3.3.1.17-1 3GPP TS 36.331 V15.3.0: Section 6.3.2		
		US10484143			1	3GPP TS 36.213 V15.3.0: Sections 7.1, 7.3, 7.3.1, 10.1, 10.1.2.1, 10.1.2.2.2, 10.1.2.2.3; Table 10.1-1 3GPP TS 36.211 V15.1.0: Sections 4.1; Figure 4.1-1; Table 4.1-1 3GPP TS 36.212 V15.2.1: Sections 5.3.3.1.3, 5.3.3.1.17, 5.3.3.1.18, 5.3.3.1.19, 5.3.3.1.20, 5.3.3.1.21, 5.3.3.1.22, 5.3.3.1.23; Table 5.3.3.1.17-1 3GPP TS 36.331 V15.3.0: Section 6.3.2		

LNG008	Sisvel International	US9980306			1, 13	3GPP TS 36.331 V12.5.0: Sections 1, 4, 4.1, 4.2, 5.10.1, 5.10.7.1, 5.10.7.2, 5.10.7.3, 5.10.7.4, 5.10.7.5, 5.10.9.1, 6.3.8, 6.5.2; Figures 4.1-1, 4.2-1, 5.10.7.1-1, 5.10.7.1-2, 5.10.7.1-3		
LNG015	Sisvel International	CNZL201410697509.6			1, 4, 6, 10, 12	3GPP TS 36.211 V12.5.0: Sections 3.1, 5.3.1, 7.2, 9, 9.1, 9.1.1, 9.2, 9.2.4, 9.3, 9.3.1, 9.4, 9.4.1, 9.8 3GPP TS 36.212 V12.4.0: Sections 5, 5.2.2.6, 5.4, 5.4.3, 5.4.3.1, 5.4.3.1.1		
		KR102302025			1	3GPP TS 36.211 V12.5.0: Sections 3.1, 5.3.1, 7.2, 9, 9.1, 9.1.1, 9.2, 9.2.4, 9.3, 9.3.1, 9.4, 9.4.1, 9.8 3GPP TS 36.212 V12.4.0: Sections 5, 5.2.2.6, 5.4, 5.4.3, 5.4.3.1, 5.4.3.1.1		
LNG016	Sisvel International	CNZL201711079561.5			1	3GPP TS 36.211 V15.3.0: Sections 5.2.3A, 5.3.2, 5.6A, 5.6A.2; Table 5.2.3A.1 3GPP TS 36.212 V15.3.0: Section 5.3.3.1.10 3GPP TS 36.213 V15.3.0: Sections 8.1.6		
		EP3709591 (DE, FR, GB, NL)			1	3GPP TS 36.211 V15.3.0: Sections 5.2.3A, 5.3.2, 5.6A, 5.6A.2; Table 5.2.3A.1 3GPP TS 36.212 V15.3.0: Section 5.3.3.1.10 3GPP TS 36.213 V15.3.0: Sections 8.1.6		
		US11153140			1	3GPP TS 36.211 V15.3.0: Sections 5.2.3A, 5.3.2, 5.6A, 5.6A.2; Table 5.2.3A.1 3GPP TS 36.212 V15.3.0: Section 5.3.3.1.10 3GPP TS 36.213 V15.3.0: Sections 8.1.6		
LNG020	Sisvel International	CNZL201410255478.9			9, 18	3GPP TS 36.212 V13.2.0: Sections 1, 3.3, 5.3, 5.3.3.1, 5.3.3.1.1, 5.3.3.1.2, 5.3.3.1.3, 5.3.3.1.3A, 5.3.3.1.4, 5.3.3.1.4A 3GPP TS 36.213 V13.2.0: Sections 1, 3.2, 3A, 4.1, 7.1, 13A, 15.1.1		
LNG021	Sisvel International	CNZL201410318536.8			6, 16	3GPP TS 36.212 V14.3.0: Sections 1, 3.3, 4.2, 5.3.3.1.1A 3GPP TS 36.201 V14.1.0: Sections 1, 3.3, 4.2.2		
MEL011	MELCO	CNZL201510125007.0 US9635656			3 3	3GPP TS 36.321 V9.1.0: Sections 4.2.1, 4.3.1, 4.3.2, 4.4, 5.4.4 3GPP TS 36.213 V9.0.1: Sections 7.2, 7.2.2 3GPP TS 36.201 V9.0.0: Section 5.5 3GPP TS 36.321 V9.1.0: Section 5.4.4	3	3GPP TS 38.212 V15.7.0: Sections 3.3, 6.3.1.1 3GPP TS 38.213 V15.7.0: Section 9.2.5 3GPP TS 38.214 V15.7.0: Sections 3.3, 5.2.1 3GPP TS 38.300 V15.7.0: Section 10.4 3GPP TS 38.321 V15.7.0: Sections 3.2, 4.2.2, 5.4.4 3GPP TS 38.331 V15.7.0: Section 6.3.2
MEL013	MELCO	EP3125443 (DE, FR, GB) IN262788			1 2	3GPP TS35.213 V9.0.1: Sections 7, 7.2, 7.2.1, 7.2.2, 10.1 3GPP TS 36.213 V9.0.1: Sections 7.2, 10.1		
		JP4841630			2	3GPP TS 36.213 V9.0.1: Sections 7.2, 10.1	2	3GPP TS 38.213 V15.7.0: Sections 9, 9.2.5, 9.2.6 3GPP TS 38.214 V15.7.0: Sections 3.3, 5.2.1, 5.2.1.1, 5.2.1.4 3GPP TS 38.215 V15.5.0: Sections 5.1, 5.1.2, 5.1.4, 5.1.6 3GPP TS 38.331 V15.7.0: Section 6.3.2
		KR101213062			2	3GPP TS 36.213 V9.0.1: Sections 7.2, 10.1	2	3GPP TS 38.215 V15.5.0: Sections 5.1, 5.1.2, 5.1.4, 5.1.6 3GPP TS 38.213 V15.7.0: Sections 9, 9.2.5 3GPP TS 38.331 V15.7.0: Sections 5.5.1, 6.3.2
		US10728857			2	3GPP TS 36.213 V9.0.1: Sections 7.2, 10.1	2	3GPP TS 38.213 V15.7.0: Sections 9, 9.2.5, 9.2.6 3GPP TS 38.214 V15.7.0: Sections 3.3, 5.2.1, 5.2.1.1, 5.2.1.4 3GPP TS 38.215 V15.5.0: Sections 5.1, 5.1.2, 5.1.4, 5.1.6 3GPP TS 38.331 V15.7.0: Section 6.3.2
MEL016	MELCO	US9113445			1	3GPP TS 36.300 V10.6.0: Sections 6, 6.1, 6.1.2, 11.3; Figure 6-2 3GPP TS 36.306 V10.4.0: Sections 4, 4.1, 4.2.5; Table 4.1-3 3GPP TS 36.321 V10.4.0: Sections 5.4.3.1, 5.4.3.2, 5.4.5, 6.1.2, 6.1.3.1; Figure 6.1.2-3; Tables 6.1.3.1-1, 6.1.3.1-2 3GPP TS 36.322 V10.0.0: Sections 4.2.1, 4.2.1.1.1, 4.2.1.2.1, 4.2.1.3.1, 4.5; Figures 4.2.1-1, 4.2.1.1.1-1, 4.2.1.2.1-1, 4.2.1.3.1-1 3GPP TS 36.331 V10.6.0: Sections 5.6.3.1, 5.6.3.3, 6.3.6; Figure 5.6.3.1-1		
MEL018	MELCO	JP5538802 US9713068			3 3	3GPP TS 23.401 V11.0.0: Sections 4.3.13, 5.3.3, 5.7.2 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		

MEL019	MELCO	US10165482			3	3GPP TS 36.300 V10.3.0: Sections 1, 3.2, 4, 4.1, 4.2.1, 4.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.2.2-2, 4.2.2-3 3GPP TS 24.301 V10.2.0: Sections 1, 5.5.3.1, 5.5.3.2.1, 5.5.3.2.2, 5.5.3.2.4, 8.1, 8.2.26.1, 8.2.26.2, 8.2.26.15; Table 8.2.26.1	3	3GPP TS 38.300 v15.0.0: Sections 1, 3.1, 3.2, 4.1, 4.2, 9.2.2.1; Figure 4.1-1 3GPP TS 23.501 v15.0.0: Sections 3.1, 5.2.3.1, 5.2.3.2.3, 5.3.2.1, 5.3.2.2.1, 5.3.2.2.3, 5.3.2.2.4, 5.3.2.3, 5.3.3.2.1, 5.4.1.1, 6.2.1 3GPP TS 24.501 v15.0.0: Sections 3.2, 5.3.4, 5.3.7, 5.5.1.1, 5.5.1.3.1, 5.5.1.3.2, 5.5.1.3.4, 8.2.6.1, 8.2.7.1, 8.2.7.15, 9.10.2.5, 9.10.3.8; Tables 8.2.6.1.1, 8.2.7.1.1, 9.10.3.8.1; Figure 9.10.3.8.1 3GPP TS 24.008 v15.0.0: Sections 10, 10.1, 10.5.7.4a; Table 10.5.163a; Figure 10.1.10.5.147a
MEL025	MELCO	EP2134006 (DE, FR, GB)			1	3GPP TS 36.211 V8.6.0: Sections 3.1, 4.2, 5.2.3, 5.6, 6.2.3, 6.12, 8.1; Figures 4.2-1, 8.1-1; Tables 4.2-1, 4.2-2, 5.2.3-1, 5.6-1, 6.2.3-1, 6.12-1 3GPP TS 36.213 V8.6.0: Section 4.2.3 3GPP TS 36.321 V8.5.0: Section 6.2.3 3GPP TS 36.300 V8.8.0: Section 5.2.7.3		
		JP4852615			1	3GPP TS 36.211 V8.6.0: Sections 3.1, 4, 4.2, 5.2, 6.2, 8.1 3GPP TS 36.213 V8.6.0: Section 4.2.3 3GPP TS 36.321 V8.5.0: Section 6.2.3 3GPP TS 36.300 V8.8.0: Section 5.2.7		
		US8068444			1	3GPP TS 21.905 V8.8.0: Section 3 3GPP TS 21.211 V8.6.0: Sections 3.1, 4, 4.2, 5.2.1, 5.2.2, 5.2.3, 6.2.1, 6.2.2, 6.2.3, 8.1; Figures 4.2-1, 5.2.1-1, 6.2.2-1; Tables 4.2-1, 5.2.3-1, 6.2.3-1 3GPP TS 36.213 V8.6.0: Section 4.2.3 3GPP TS 36.321 V8.5.0: Sections 5.1.4, 5.2, 6.2.3 3GPP TS 36.300 V8.8.0: Sections 3.2, 5, 5.2.7.3; Figures 5-1, 5-2; Table 5-1		
MEL027	MELCO	CNZL201410767521.X			1, 2, 7, 8	3GPP TS 36.201 V8.3.0: Sections 4.1, 4.1.1, 4.2, 4.2.1 3GPP TS 36.213 V8.8.0: Sections 7.2, 7.2.2		
		EP1845678 (DE, ES, FI, FR, GB, IT, NL, PL, SE, TR)			1, 3	3GPP TS 36.201 V8.3.0: Sections 4.1.1, 4.2.1 3GPP TS 36.212 V8.6.0: Sections 5.2.2.6.2, 5.2.2.6.4 3GPP TS 36.213 V8.6.0: Sections 7.2, 7.2.1	3	3GPP TS 38.300 V15.13.0: Section 4.1 3GPP TS 38.201 V15.0.0: Section 4.1.1 3GPP TS 38.214 V15.15.0: Sections 5.2.1, 5.2.1.1, 5.2.1.4, 5.2.2.1, 5.2.3 3GPP TS 38.331 V15.16.0: Section 6.3.2 3GPP TS 38.212 V15.13.0: Section 6.3.2.1.2
		EP2086146 (DE, ES, FI, FR, GB, IT, NL, PL, SE, TR)			1, 2	3GPP TS 36.201 V8.3.0: Sections 4.1.1, 4.2.1 3GPP TS 36.212 V8.7.0: Sections 5.2.2.6.2, 5.2.2.6.4 3GPP TS 36.213 V8.8.0: Sections 7.2, 7.2.1	2	3GPP TS 38.300 V15.13.0: Section 4.1 3GPP TS 38.201 V15.0.0: Section 4.1.1 3GPP TS 38.214 V15.15.0: Sections 5.2.1, 5.2.1.1, 5.2.1.4, 5.2.2.1, 5.2.3 3GPP TS 38.331 V15.16.0: Section 6.3.2 3GPP TS 38.212 V15.13.0: Section 6.3.2.1.2
		EP2256976 (DE, FR, GB)			1, 2	3GPP TS 36.201 V8.3.0: Sections 1, 3, 4, 4.1, 4.1.1, 4.2, 4.2.1 3GPP TS 36.213 V8.8.0: Sections 3, 3.2, 7, 7.2, 7.2.2		
		JP5506861			1, 8	3GPP TS 36.201 V8.3.0: Sections 4.1.1, 4.2.1 3GPP TS 36.213 V8.8.0: Sections 7.2		
MEL028	MELCO	EP2254259 (DE, FR, GB)			1, 4	3GPP TS 36.211 V8.8.0: Sections 4.1.1, 4.2.1, 5.4.1, 5.5.2.2.1, 5.2.2.2.2 3GPP TS 36.213 V8.8.0: Sections 7.3, 10.1 3GPP TS 36.321 V8.7.0: Sections 5.4.1, 5.4.4, 5.4.5, 7.2.1 3GPP TS 36.331 V8.7.0: Sections 6.3.2	4	3GPP TS 38.300: Sections 4.1, 5.5, 10.3, 10.4 3GPP TS 38.321: Sections 4.5.4.2, 5.4.1, 5.4.4, 5.4.5 3GPP TS 38.213: Sections 9.2, 9.2.4 3GPP TS 38.211: Sections 5.2.2, 6.4.1.3.1, 6.4.1.3.2
		US8825067			1, 4	3GPP TS 36.321 V8.7.0: Sections 5.4.1, 5.4.4, 5.4.5 3GPP TS 36.213 V8.8.0: Sections 7.3, 10.1; Table 10.1-5 3GPP TS 36.331 V8.7.0: Sections 6.3.2 3GPP TS 36.211 V8.8.0: Sections 5.4.1, 5.5, 5.5.2.2.1, 5.5.2.2.2; Table 5.5.2.2.2-1		
MEL038	MELCO	CNZL201510061928.5					1	3GPP TS 38.211 V16.3.0: Sections 3.2, 4.4.2, 4.4.3, 5.3.1, 6.1.1, 6.3.1.1, 6.3.1.2, 6.3.1.3, 6.3.1.4, 6.3.1.5, 6.3.1.6, 6.3.1.7 3GPP TS 38.212 V16.3.0: Sections 4.1, 5, 6.2.1; Table 4.1-1 3GPP TS 38.214 V16.3.0: Sections 6.1.2.2, 6.1.2.2.2 3GPP TS 38.321 V16.2.1: Sections 4.2.2, 4.4; Figure 4.2.2-1 3GPP TS 38.300 V16.3.0: Sections 5.1, 5.4.1, 5.5, 6.2.1, 6.6 L2, 6.7; Figures 5.1-1, 6.6-1, 6.7-2
		KR101643434					1	3GPP TS 38.211 V16.3.0: Sections 3.2, 4.4.2, 4.4.3, 5.3.1, 6.1.1, 6.3.1.1, 6.3.1.2, 6.3.1.3, 6.3.1.4, 6.3.1.5, 6.3.1.6, 6.3.1.7 3GPP TS 38.212 V16.3.0: Sections 4.1, 5, 6.2.1; Table 4.1-1 3GPP TS 38.214 V16.3.0: Sections 6.1.2.2, 6.1.2.2.2 3GPP TS 38.321 V16.2.1: Sections 4.2.2, 4.4; Figure 4.2.2-1 3GPP TS 38.300 V16.3.0: Sections 5.1, 5.4.1, 5.5, 6.2.1, 6.6 L2, 6.7; Figures 5.1-1, 6.6-1, 6.7-2
MEL040	MELCO	EP3190837 (DE, FR, GB)			4	3GPP TS 36.101 V12.6.0: Sections 6.2.5, 6.2.5C 3GPP TS 36.213 V12.5.0: Sections 5.1.4, 6.1 3GPP TS 36.300 V12.5.0: Sections 4.9, 4.9.1, 10.1, 10.1.2.8, 10.1.2.8.1 3GPP TS 36.331 V12.5.0: Sections 6.2.2, 6.3.2		

MEL041	MELCO	JP6351699			4	3GPP TS36.300 V11.4.0: Sections 3.2, 4, 16.1.5 3GPP TS 36.423 V10.1.0: Sections 8.3.1.2, 9.1.2.1, 9.2.5.5		
MEL042	MELCO	CNZL201611067214.6					3	3GPP TS 38.300 V16.8.0: Sections 3.1, 3.2, 4.1, 4.2, 4.3.2.2, 6.12 3GPP TS 38.306 V16.7.0: Sections 1, 4.2.1, 4.2.7.2, 4.2.7.6 3GPP TS 38.331 V16.7.0: Sections 4.2.1, 5.6.1.1, 5.6.1.2, 5.6.1.4, 6.2.2, 6.3.3; Figures 4.2.1-1, 5.6.1.1-1
		JP6400131					3	3GPP TS 38.300 V16.8.0: Sections 3.1, 3.2, 4.1, 4.2, 4.3.2.2, 6.12 3GPP TS 38.306 V16.7.0: Sections 1, 4.2.1, 4.2.7.2, 4.2.7.6 3GPP TS 38.331 V16.7.0: Sections 4.2.1, 5.6.1.1, 5.6.1.2, 5.6.1.4, 6.2.2, 6.3.3; Figures 4.2.1-1, 5.6.1.1-1
		US9705648					3	3GPP TS 38.300 V16.8.0: Sections 3.1, 3.2, 4.1, 4.2, 4.3.2.2, 6.12 3GPP TS 38.306 V16.7.0: Sections 1, 4.2.1, 4.2.7.2, 4.2.7.6 3GPP TS 38.331 V16.7.0: Sections 4.2.1, 5.6.1.1, 5.6.1.2, 5.6.1.4, 6.2.2, 6.3.3; Figures 4.2.1-1, 5.6.1.1-1
MEL043	MELCO	US10200976			2	3GPP TS 36.101 V11.3.0: Sections 2, 3.3, 5.5; Table 5.5-1 3GPP TS 36.300 V11.2.0: Sections 4, 7.5 3GPP TS 36.311 V11.2.0: Sections 3.2, 4.2.1, 5.1.2, 5.2.1.1, 5.2.2.1, 6.2.1, 6.3.1, 6.3.4; Figure 5.2.2.1-1		
		US10412712			3	3GPP TS 36.101 V11.6.0: Sections 5.5, 5.5A; Tables 5.5-1, 5.5A-2	3	3GPP TS 38.300 v15.3.0: Sections 1, 3.1, 3.2, 4.1, 4.2, 5.4.1, 7.7 3GPP TS 38.101-1 v15.3.0: Sections 3.1, 3.3, 5.1, 5.2, 5.2A.2, 5.5A.3; Tables 5.1-1, 5.2-1, 5.2A.2-1, 5.5A.3-1 3GPP TS 38.133 v15.3.0: Sections 3.1, 3.3, 3.6, 3.6.2.1
MEL044	MELCO	CNZL201810939948.1			1	3GPP TS 36.300 V15.6.0: Sections 3.1, 3.2, 5.5.0, 7.5, 10.1.2.7, 10.1.5.0, 10.1.5.2; Figure 10.1.5.2-1 3GPP TS 36.321 V15.6.0: Sections 5.1.4, 6.1.3.5; Figure 6.1.3.5-1 3GPP TS 36.213 V15.6.0: Section 4.2.3 3GPP TS 36.104 V15.7.0: Sections 6.5.3, 6.5.3.1 3GPP TS 36.211 V15.6.0: Section 8.1; Figure 8.1-1	1	3GPP TR 21.905 v15.1.0: Section 4 3GPP TS 36.300 v15.6.0: Section 3.2 3GPP TS 38.213 v15.6.0: Sections 3.3, 4.2, 5.1; Figure 5.1-2 3GPP TS 38.300 v15.6.0: Sections 3.1, 3.2, 4.1, 5.4.1, 7.1, 7.7, 9.2.6, 9.2.9; Figure 9.2.6-1 3GPP TS 38.321 v15.6.0: Sections 5.1.4, 5.2, 6.1.3.4
		JP7003201			1	3GPP TS 36.300 V15.6.0: Sections 3.1, 3.2, 5.5.0, 7.5, 10.1.2.7, 10.1.5.0, 10.1.5.2; Figure 10.1.5.2-1 3GPP TS 36.321 V15.6.0: Sections 5.1.4, 6.1.3.5; Figure 6.1.3.5-1 3GPP TS 36.213 V15.6.0: Section 4.2.3 3GPP TS 36.104 V15.7.0: Sections 6.5.3, 6.5.3.1 3GPP TS 36.211 V15.6.0: Section 8.1; Figure 8.1-1	1	3GPP TR 21.905 v15.1.0: Section 4 3GPP TS 36.300 v15.6.0: Section 3.2 3GPP TS 38.213 v15.6.0: Sections 3.3, 4.2, 5.1; Figure 5.1-2 3GPP TS 38.300 v15.6.0: Sections 3.1, 3.2, 4.1, 5.4.1, 7.1, 7.7, 9.2.6, 9.2.9; Figure 9.2.6-1 3GPP TS 38.321 v15.6.0: Sections 5.1.4, 5.2, 6.1.3.4
		US10728889			1	3GPP TS 36.300 V15.6.0: Sections 3.1, 3.2, 5.5.0, 7.5, 10.1.2.7, 10.1.5.0, 10.1.5.2; Figure 10.1.5.2-1 3GPP TS 36.321 V15.6.0: Sections 5.1.4, 6.1.3.5; Figure 6.1.3.5-1 3GPP TS 36.213 V15.6.0: Section 4.2.3 3GPP TS 36.104 V15.7.0: Sections 6.5.3, 6.5.3.1 3GPP TS 36.211 V15.6.0: Section 8.1; Figure 8.1-1	1	3GPP TR 21.905 v15.1.0: Section 4 3GPP TS 36.300 v15.6.0: Section 3.2 3GPP TS 38.213 v15.6.0: Sections 3.3, 4.2, 5.1; Figure 5.1-2 3GPP TS 38.300 v15.6.0: Sections 3.1, 3.2, 4.1, 5.4.1, 7.1, 7.7, 9.2.6, 9.2.9; Figure 9.2.6-1 3GPP TS 38.321 v15.6.0: Sections 5.1.4, 5.2, 6.1.3.4
MEL046	MELCO	JP6612940			4	3GPP TS 36.300 V12.5.0: Sections 4, 4.9.1 and 10.1.2.8.1 3GPP TS 35.423 V12.5.0: Sections 1 and 9.1.3.2 3GPP TS 36.331 V12.5.0: Sections 6.2.2 and 6.3.2	4	3GPP TS 38.300 V15.0.0: Sections 1, 4.5 3GPP TS 37.340 V15.0.0: Sections 1, 3.1, 3.2, 4.1.2, 4.2.1, 10.2.1 3GPP TS 36.423 V15.2.0: Sections 1, 7, 8.7.4.2, 9.1.4.2 3GPP TS 38.331 V15.1.0: Sections 6.2.2, 6.3.2, 11.2 3GPP TS 36.331 V15.1.0: Sections 5.3.5.3, 6.2.2
MEL054	MELCO	JP6851438					3	3GPP TS 38.401 V17.0.0: Sections 3.1, 6.1.1 3GPP TS 38.300 V17.0.0: Sections 4.4.1 3GPP TS 38.473 V17.0.0: Sections 8.3.7.2
		JP7072696					3	3GPP TS 38.401 V17.0.0: Sections 3.1, 6.1.1 3GPP TS 38.300 V17.0.0: Sections 1, 4.4.1 3GPP TS 38.473 V17.0.0: Sections 8.2.7.1, 8.2.7.2, 9.2.1.15
MEL056	MELCO	JP6239194					1	3GPP TS 38.201 V16.0.0: Sections 3.3 3GPP TS 38.211 V15.6.0: Sections 3.2, 5.1, 5.2.2, 6.2, 6.3.1.6, 6.4.1.1.6, 4.1.1.1.2, 6.4.1.1.1.3 3GPP TS 38.300 V15.6.0: Sections 5.1, 5.3.2
MEL057	MELCO	JP6300992					1	3GPP TS 38.201 V16.0.0: Sections 3.3 3GPP TS 38.211 V15.6.0: Sections 3.2, 5.2.1, 6.2, 6.3.1.2, 6.3.1.3, 6.3.1.4, 6.4.1.2.1.2, 6.4.1.2.2.2 3GPP TS 38.300 V15.6.0: Sections 5.1
MEL058	MELCO	JP6852203					1	3GPP TS 38.211 V15.8.0: Section 3.3 3GPP TS 38.213 V15.8.0: Sections 4.1, 10.1, 13; Tables 13-7, 13-8 3GPP TS 38.300 V15.8.0: Sections 4.1, 5.2.4, 5.5 3GPP TS 38.331 V15.8.0: Sections 4.4, 5.2.1, 5.2.2.3.2, 6.3.2
NKO002*	Sisvel International	CA2318480			27	3GPP TS 24.301 V8.10.0: Sections 4.2, 6.1.1, 6.4.1.1, 6.4.3.1, 6.4.3.2, 6.4.3.3, 6.4.3.4, 6.5.3.1, 8.3.18.1, 9.3.2, 9.9.4.3; Figure 6.4.3.2.1; Tables 8.3.18.1		
		EP1051870 (DE, ES, FR, GB, IT, NL)			18	3GPP TS 24.301 V8.10.0: 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		
		JP4002731			1	3GPP TS 23.401 V8.18.0: Sections 4.2.1 3GPP TS 24.301 V8.10.0: Sections 6.4.2.2, 6.4.2.3, 6.4.3.2, 6.4.3.3, 8.3.18.1, 9.3.2, 9.9.4.3		

NKO002*	Sisvel International	US6826406			1	3GPP TS 24.301 V8.10.0: Sections 4.2, 6.1.1, 6.4.1.1, 6.4.3.1, 6.4.3.2, 6.4.3.3, 6.4.3.4, 6.5.3.1, 8.3.18.1, 9.3.2, 9.9.4.3; Figure 6.4.3.2.1; Tables 8.3.18.1		
		US7599384			17	3GPP TS 24.301 V8.10.0: Sections 4.2, 6.1.1, 6.4.1.1, 6.4.3.1, 6.4.3.2, 6.4.3.3, 6.4.3.4, 6.5.3.1, 8.3.18.1, 9.3.2, 9.9.4.3; Figure 6.4.3.2.1; Tables 8.3.18.1		
NKO003*	Sisvel International	EP0852885 (AT, BE, DE, ES, FR, GB, GR, IE, IT, NL)			12	3GPP TS23.401 V8.18.0: Sections 4.7, 4.7.1, 4.7.2, 4.7.2.1, 5.4, 5.4.1, 5.7, 5.7.1; Tables 5.4.1-1, 5.7.1-1		
NKO005*	Sisvel International	CNZL99811826.5			14	3GPP TS 23.003 V8.17.0: Sections 2.1, 2.8, 2.8.1 3GPP TS 23.401 V8.18.0: Section 5.3.7; Figure 5.3.7-1		
		EP1119997 (AT, BE, DE, ES, FR, GB, IT, NL, PT, SE)			15	3GPP TS 23.003 V8.17.0: Sections 2.1, 2.8, 2.8.1 3GPP TS 23.401 V8.18.0: Section 5.3.7; Figure 5.3.7-1		
		JP4226786			1	3GPP TS 23.003 V8.17.0: Sections 2.1, 2.8.1 3GPP TS 23.401 V8.18.0: Sections 4.2.1, 5.2.2, 5.3.2.1		
NKO009*	Sisvel International	BRPI9915081.6	1	3GPP TS 25.301 V3.10.0: Sections 5.3.1, 5.3.1.1.1, 5.6.2, 7; Figure 13 3GPP TS 25.211 V3.12.0: Sections 3.2, 4.5, 7.6.1, 7.6.2, 7.6.3, 8.2, 8.2.1 3GPP TS 25.402 V3.10.0: Sections 7, 7.1, 5, 9.3 A, 9.3.1, 9.3.1 A 3GPP TS 33.102 V3.10.0: Sections 6.6.4, 6.6.4.1, 6.4.8; Figure 16c 3GPP TS 25.331 V3.10.0: Sections 8.2.2.3, 8.5.8, 8.5.9, 10.3.7.6, 10.3.3.38				
		CNZL200510106324.4	1	3GPP TS 25.301 V3.10.0: Sections 5.3.1, 5.3.1.1.1, 5.6.2, 7; Figure 13 3GPP TS 25.211 V3.12.0: Sections 3.2, 4.5, 7.6.1, 7.6.2, 7.6.3, 8.2, 8.2.1 3GPP TS 25.402 V3.10.0: Sections 7, 7.1, 5, 9.3 A, 9.3.1, 9.3.1 A 3GPP TS 33.102 V3.10.0: Sections 6.6.4, 6.6.4.1, 6.4.8; Figure 16c 3GPP TS 25.331 V3.10.0: Sections 8.2.2.3, 8.5.8, 8.5.9, 10.3.7.6, 10.3.3.38				
		CNZL99813850.9	1	3GPP TS 25.301 V3.10.0: Sections 5.3.1, 5.3.1.1.1, 5.6.2, 7; Figure 13 3GPP TS 25.211 V3.12.0: Sections 3.2, 4.5, 7.6.1, 7.6.2, 7.6.3, 8.2, 8.2.1 3GPP TS 25.402 V3.10.0: Sections 7, 7.1, 5, 9.3 A, 9.3.1, 9.3.1 A 3GPP TS 33.102 V3.10.0: Sections 6.6.4, 6.6.4.1, 6.4.8; Figure 16c 3GPP TS 25.331 V3.10.0: Sections 8.2.2.3, 8.5.8, 8.5.9, 10.3.7.6, 10.3.3.38				
		JP3519688	1	3GPP TS 25.301 V3.10.0: Sections 5.3.1, 5.3.1.1.1, 5.6.2, 7; Figure 13 3GPP TS 25.211 V3.12.0: Sections 3.2, 4.5, 7.6.1, 7.6.2, 7.6.3, 8.2, 8.2.1 3GPP TS 25.402 V3.10.0: Sections 7, 7.1, 5, 9.3 A, 9.3.1, 9.3.1 A 3GPP TS 33.102 V3.10.0: Sections 6.6.4, 6.6.4.1, 6.4.8; Figure 16c 3GPP TS 25.331 V3.10.0: Sections 8.2.2.3, 8.5.8, 8.5.9, 10.3.7.6, 10.3.3.38				
		US7085294	21	3GPP TS 25.301 V3.10.0: Sections 5.3.1, 5.3.1.1.1, 5.6.2, 7; Figure 13 3GPP TS 25.211 V3.12.0: Sections 3.2, 4.5, 7.6.1, 7.6.2, 7.6.3, 8.2, 8.2.1 3GPP TS 25.402 V3.10.0: Sections 7, 7.1, 5, 9.3 A, 9.3.1, 9.3.1 A 3GPP TS 33.102 V3.10.0: Sections 6.6.4, 6.6.4.1, 6.4.8; Figure 16c 3GPP TS 25.331 V3.10.0: Sections 8.2.2.3, 8.5.8, 8.5.9, 10.3.7.6, 10.3.3.38				
NKO011*	Sisvel International	EP2139272 (AT, BE, CH, DE, EK, ES, FI, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE)			1	3GPP TS 23.401 V8.18.0: Sections 5.3.2, 5.3.2.1; Table 5.3.2.1-1		
		HK1132411			1	3GPP TS 23.401 V8.18.0: Sections 5.3.2, 5.3.2.1; Table 5.3.2.1-1		
		US7580714			1	3GPP TS 23.401 V8.18.0: Sections 5.3.2, 5.3.2.1, 5.3.5.1; Figures 5.3.2.1-1, 5.3.5.1-1		
		US7979070			1	3GPP TS 23.401 V8.18.0: Sections 5.3.2, 5.3.2.1, 5.3.5.1; Figures 5.3.2.1-1, 5.3.5.1-1		
		US9008615			1	3GPP TS 24.301 V8.10.0: Sections 5.5.1.2.2, 5.5.1.2.4, 6.4.1.1, 8.2.4.1 3GPP TS 23.401 V8.18.0: Section 5.3.2.1 3GPP TS 36.331 V8.21.0: Section 5.3.5		

NKO012	Sisvel International	BRPI0107654.0	11	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		CA2395586	11	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		CNZL01803214.1	11	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		CNZL200510072602.9	23	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		EP1249151 (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, NL, PT, SE, TR)	11	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		HK1087293	23	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		IN221857	11	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		KR100554710	11	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		RU2233047	11	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		US7433698	10	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
		US8364196	1	3GPP TS 25.331 V3.21.0: Sections 8.1.3, 8.1.3.9, 10.2.36, 10.3.3.29, 10.3.6.36; Figures 8.1.3-2			
NKO013	Sisvel International	EP1470684 (DE, FR, GB, IT)	37	3GPP TS 24.229 v. 5.10.0: Sections 4.1, 5.1.1, 5.1.1.3, 5.1.1.7 3GPP TS 23.228 v. 5.10.0: Sections 5.3, 5.3.2, 5.3.2.2.1, 5.3.3; Figure 5.5 IETF RFC 3680: Section 4.7			
		JP4586056	6	3GPP TS 24.229 v. 5.10.0: Sections 4.1, 5.1.1, 5.1.1.3, 5.1.1.7 3GPP TS 23.228 v. 5.10.0: Sections 5.3, 5.3.2, 5.3.2.2.1, 5.3.3; Figure 5.5 IETF RFC 3680: Section 4.7			
		KR100704036	37	3GPP TS 24.229 v. 5.10.0: Sections 4.1, 5.1.1, 5.1.1.3, 5.1.1.7 3GPP TS 23.228 v. 5.10.0: Sections 5.3, 5.3.2, 5.3.2.2.1, 5.3.3; Figure 5.5 IETF RFC 3680: Section 4.7			
		US8571548	26	3GPP TS 24.229 v. 5.10.0: Sections 4.1, 5.1.1, 5.1.1.3, 5.1.1.7 3GPP TS 23.228 v. 5.10.0: Sections 5.3, 5.3.2, 5.3.2.2.1, 5.3.3; Figure 5.5 IETF RFC 3680: Section 4.7			
NKO019*	Sisvel International	USRE40825	46	3GPP TS 25.214 V3.12.0: Sections 7, 7.1, 7.3; Figure 3 3GPP TS 25.331 V5.13.0: Sections 8.6, 8.6.6, 8.6.6.24, 10.3.6, 10.3.6.21, 10.3.6.86 3GPP TS 25.211 V5.3.0: Sections 5.2.1; Figure 2			
NKO026	Sisvel International	USRE42692	28	3GPP TS 25.211 V5.8.0: Sections 5.3.3.12, 5.3.3.13 3GPP TS 25.212 V5.8.0: Section 4.6.2.3 3GPP TS 25.213 V5.8.0: Section 5.2.1			
NKO028*	Sisvel International	CA2395756	18	3GPP TS 25.215 v 3.6.0: Sections 6.1.1.1, 6.1.1.2; Figure 1 3GPP TS 25.212 v 3.6.0: Sections 4.2, 4.4, 4.4.1; Figures 1, 11, 12 3GPP TS 25.331 v 3.6.0: Sections 10.3.6.33, 14.2, 14.3			
		CNZL01803595.7	17	3GPP TS 25.215 v 3.6.0: Sections 6.1.1.1, 6.1.1.2; Figure 1 3GPP TS 25.212 v 3.6.0: Sections 4.2, 4.4, 4.4.1; Figures 1, 11, 12 3GPP TS 25.331 v 3.6.0: Sections 10.3.6.33, 14.2, 14.3			
		US7020108	16	3GPP TS 25.215 v 3.6.0: Sections 6.1.1.1, 6.1.1.2; Figure 1 3GPP TS 25.212 v 3.6.0: Sections 4.2, 4.4, 4.4.1; Figures 1, 11, 12 3GPP TS 25.331 v 3.6.0: Sections 10.3.6.33, 14.2, 14.3			
NKO030	Sisvel International	BRPI0108480.1	16	3GPP TS 25.331 V7.2.0: Sections 7.1, 8.3.1.2, 8.3.1.13, 8.3.1.14, 8.2.2.1, 10.3.3.43, 13.1			
		CA2401037	17	3GPP TS 25.331 V7.2.0: Sections 7.1, 8.3.1.2, 8.3.1.13, 8.3.1.14, 8.2.2.1, 10.3.3.43, 13.1			
		CNZL01805488.9	17	3GPP TS 25.331 V7.2.0: Sections 7.1, 8.3.1.2, 8.3.1.13, 8.3.1.14, 8.2.2.1, 10.3.3.43, 13.1			
		EP1264504 (DE, ES, FR, GB, IT, NL)	17	3GPP TS 25.331 V7.2.0: Sections 7.1, 8.3.1.2, 8.3.1.13, 8.3.1.14, 8.2.2.1, 10.3.3.43, 13.1			
		JP3961774	17	3GPP TS 25.331 V7.2.0: Sections 7.1, 8.3.1.2, 8.3.1.13, 8.3.1.14, 8.2.2.1, 10.3.3.43, 13.1			
		KR100501836	17	3GPP TS 25.331 V7.2.0: Sections 7.1, 8.3.1.2, 8.3.1.13, 8.3.1.14, 8.2.2.1, 10.3.3.43, 13.1			
		US7751803	17	3GPP TS 25.331 V7.2.0: Sections 7.1, 8.3.1.2, 8.3.1.13, 8.3.1.14, 8.2.2.1, 10.3.3.43, 13.1			
NKO034	Sisvel International	EP1540864 (DE, FR, GB)	15	3GPP TS 25.211 V6.4.0: Sections 3.2, 5.2.1.2; Figure 2A 3GPP TS 25.214 V6.4.0: Sections 1, 3.2, 6A.1.1, 3GPP TS 25.212 V6.3.0: Sections 4.7.1, 4.7.1.1; Table 13A			

NKO034	Sisvel International	US7116651	27	3GPP TS 25.211 V6.4.0: Sections 3.2, 5.2.1.2; Figure 2A 3GPP TS 25.214 V6.4.0: Sections 1, 3.2, 6A.1.1, 3GPP TS25.212 V6.3.0: Sections 4.7.1, 4.7.1.1; Table 13A			
NKO035	Sisvel International	EP1807956 (AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, NL, PL, PT, RO, SE, SK, TR)			1	3GPP TS 36.201 V8.3.0: Sections 4.2.1 3GPP TS 36.212 V8.8.0: 5.2, 5.2.1, 5.2.2, 5.2.2.6 3GPP TS 36.213 V8.8.0: 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	
		US7283499			1	3GPP TS 36.201 V8.3.0: Sections 4.1.2, 4.2.1 3GPP TS 36.212 V8.8.0: Sections 4.2, 5, 5.3.2; Figure 5.3.2-1 3GPP TS 36.213 V8.8.0: Sections 7.2, 7.2.1, 7.2.2, 7.2.3, 7.2.4; Table: 7.2.3-1	
NKO036	Sisvel International	AU2005283836	6	3GPP TS25.211 V6.6.0: Sections 5.2.1, 5.2.1.3; Figure 2B 3GPP TS25.321 V6.7.0: Sections 9.2.5.3, 9.2.5.3.1, 11.8.1.3, 11.8.1.3.1, 11.8.1.5, 3GPP TS25.212 V6.7.0: Sections 4.9.1, 4.9.2.3, 4.9.5; Figure 23; Table 16A			
		CNZL201610989568.X	10	3GPP TS25.211 V6.6.0: Sections 5.2.1, 5.2.1.3; Figure 2B 3GPP TS25.321 V6.7.0: Sections 9.2.5.3, 9.2.5.3.1, 11.8.1.3, 11.8.1.3.1, 11.8.1.5, 3GPP TS25.212 V6.7.0: Sections 4.9.1, 4.9.2.3, 4.9.5; Figure 23; Table 16A			
		EP1794950 (DE, FR, GB, IT, RO)	11	3GPP TS25.211 V6.6.0: Sections 5.2.1, 5.2.1.3; Figure 2B 3GPP TS25.321 V6.7.0: Sections 9.2.5.3, 9.2.5.3.1, 11.8.1.3, 11.8.1.3.1, 11.8.1.5, 3GPP TS25.212 V6.7.0: Sections 4.9.1, 4.9.2.3, 4.9.5; Figure 23; Table 16A			
		IN264926	11	3GPP TS25.211 V6.6.0: Sections 5.2.1, 5.2.1.3; Figure 2B 3GPP TS25.321 V6.7.0: Sections 9.2.5.3, 9.2.5.3.1, 11.8.1.3, 11.8.1.3.1, 11.8.1.5, 3GPP TS25.212 V6.7.0: Sections 4.9.1, 4.9.2.3, 4.9.5; Figure 23; Table 16A			
		JP4514795	11	3GPP TS25.211 V6.6.0: Sections 5.2.1, 5.2.1.3; Figure 2B 3GPP TS25.321 V6.7.0: Sections 9.2.5.3, 9.2.5.3.1, 11.8.1.3, 11.8.1.3.1, 11.8.1.5, 3GPP TS25.212 V6.7.0: Sections 4.9.1, 4.9.2.3, 4.9.5; Figure 23; Table 16A			
		KR100915853	33	3GPP TS25.211 V6.6.0: Sections 5.2.1, 5.2.1.3; Figure 2B 3GPP TS25.321 V6.7.0: Sections 9.2.5.3, 9.2.5.3.1, 11.8.1.3, 11.8.1.3.1, 11.8.1.5, 3GPP TS25.212 V6.7.0: Sections 4.9.1, 4.9.2.3, 4.9.5; Figure 23; Table 16A			
		US8787158	1	3GPP TS25.211 V6.6.0: Sections 5.2.1, 5.2.1.3; Figure 2B 3GPP TS25.321 V6.7.0: Sections 9.2.5.3, 9.2.5.3.1, 11.8.1.3, 11.8.1.3.1, 11.8.1.5, 3GPP TS25.212 V6.7.0: Sections 4.9.1, 4.9.2.3, 4.9.5; Figure 23; Table 16A			
		US9019829	13	3GPP TS25.211 V6.6.0: Sections 5.2.1, 5.2.1.3; Figure 2B 3GPP TS25.321 V6.7.0: Sections 9.2.5.3, 9.2.5.3.1, 11.8.1.3, 11.8.1.3.1, 11.8.1.5, 3GPP TS25.212 V6.7.0: Sections 4.9.1, 4.9.2.3, 4.9.5; Figure 23; Table 16A			
NKO039	Sisvel International	AU2004315850	16	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2			
		BRPI0418494.7	14	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2			
		CA2554079	16	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2			
		CNZL200480040893.7	16	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2			
		IN263794	1	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2			

NKO039	Sisvel International	JP4468960	16	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2				
		KR100787532	16	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2				
		RU2337490	16	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2				
		RU2407238	16	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2				
		US7133690	16	3GPP TS 25.321 v. 6.15.0: Sections 3.1.2, 9.2.5.2.1, 11.8.1.3, 11.8.1.3.1 3GPP TS 25.211 v. 6.5.0: Section 5.3.2.4 3GPP TS 25.214 v. 6.11.0: Section 6B.2				
NKO041	Sisvel International	BRPI0512333.0	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		CA2571423	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		CNZL200580026115.7	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		EP1759555 (DE, ES, FR, GB, IT, NL)	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		IN308766	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		JP4827839	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		KR101013227	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		KR101077598	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		RU2408170	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		TWI352551	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		US8155060	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
		US8249012	1	3GPP TS 25.214 V6.5.0: Section 4.3.1.2 3GPP TS 25.331 V6.6.0: Sections 8.3.1.2, 8.5.6, B.3.1.2 3GPP TS 25.211 V6.5.0: Section 5.3.2.6				
NKO044	Sisvel International	CNZL200680038765.8			16	3GPP TS 36.322 V10.0.0: Sections 4.1, 4.2.1, 6.2, 6.2.1.1, 6.2.1.3, 6.2.1.4, 6.2.1.5, 6.2.2.1, 6.2.2.2, 6.2.2.5, 6.2.2.6; Figures 4.2.1-1, 6.2.1.3-3, 6.2.1.3-4, 6.2.1.3-5, 6.2.1.3-6, 6.2.1.4-2, 6.2.1.4-3, 6.2.1.5-1, 6.2.1.5-2, 6.2.1.5-3; Table 6.2.2.6-1	16	3GPP TS 38.322 V15.5.0: Sections 1, 4.2, 4.2.1, 4.2.1.2.2, 4.2.1.3.2, 6.2.2, 6.2.2.1, 6.2.2.3, 6.2.2.4, 6.2.3.4
		EP1925142 (AT, BE, CH, CZ, DE, ES, FR, GB, IE, IT, LU, NL, PL, PT, RO, SE, TR)			14	3GPP TS 36.322 V10.0.0: Sections 4.1, 4.2.1, 6.2, 6.2.1.1, 6.2.1.3, 6.2.1.4, 6.2.1.5, 6.2.2.1, 6.2.2.2, 6.2.2.5, 6.2.2.6; Figures 4.2.1-1, 6.2.1.3-3, 6.2.1.3-4, 6.2.1.3-5, 6.2.1.3-6, 6.2.1.4-2, 6.2.1.4-3, 6.2.1.5-1, 6.2.1.5-2, 6.2.1.5-3; Table 6.2.2.6-1	14	3GPP TS 38.322 V15.5.0: Sections 1, 4.2, 4.2.1, 4.2.1.2.2, 4.2.1.3.2, 6.2.2, 6.2.2.1, 6.2.2.3, 6.2.2.4, 6.2.3.4
		IN318570			14	3GPP TS 36.322 V10.0.0: Sections 4.1, 4.2.1, 6.2, 6.2.1.1, 6.2.1.3, 6.2.1.4, 6.2.1.5, 6.2.2.1, 6.2.2.2, 6.2.2.5, 6.2.2.6; Figures 4.2.1-1, 6.2.1.3-3, 6.2.1.3-4, 6.2.1.3-5, 6.2.1.3-6, 6.2.1.4-2, 6.2.1.4-3, 6.2.1.5-1, 6.2.1.5-2, 6.2.1.5-3; Table 6.2.2.6-1	14	3GPP TS 38.322 V15.5.0: Sections 1, 4.2, 4.2.1, 4.2.1.2.2, 4.2.1.3.2, 6.2.2, 6.2.2.1, 6.2.2.3, 6.2.2.4, 6.2.3.4
		KR100950843			16	3GPP TS 36.322 V10.0.0: Sections 4.1, 4.2.1, 6.2, 6.2.1.1, 6.2.1.3, 6.2.1.4, 6.2.1.5, 6.2.2.1, 6.2.2.2, 6.2.2.5, 6.2.2.6; Figures 4.2.1-1, 6.2.1.3-3, 6.2.1.3-4, 6.2.1.3-5, 6.2.1.3-6, 6.2.1.4-2, 6.2.1.4-3, 6.2.1.5-1, 6.2.1.5-2, 6.2.1.5-3; Table 6.2.2.6-1	16	3GPP TS 38.322 V15.5.0: Sections 1, 4.2, 4.2.1, 4.2.1.2.2, 4.2.1.3.2, 6.2.2, 6.2.2.1, 6.2.2.3, 6.2.2.4, 6.2.3.4

NKO044	Sisvel International	US7894443			16	3GPP TS 36.322 V10.0.0: Sections 4.1, 4.2.1, 6.2, 6.2.1.1, 6.2.1.3, 6.2.1.4, 6.2.1.5, 6.2.2.1, 6.2.2.2, 6.2.2.5, 6.2.2.6; Figures 4.2.1-1, 6.2.1.3-3, 6.2.1.3-4, 6.2.1.3-5, 6.2.1.3-6, 6.2.1.4-2, 6.2.1.4-3, 6.2.1.5-1, 6.2.1.5-2, 6.2.1.5-3; Table 6.2.2.6-1	16	3GPP TS 38.322 V15.0.0: Sections 1, 4.2, 4.2.1, 4.2.1.2.2, 4.2.1.3.2, 6.2.2, 6.2.2.1, 6.2.2.3, 6.2.2.4, 6.2.3.4
ORA002	3G Licensing	BRPI0116844.4	10	3GPP TS 22.243 V8.0.0: Sections 1, 3.1, 4, 5, 7; Figure 1 3GPP TS 26.243 V8.0.0: Section 2 3GPP TS 26.177 V8.0.0: Section 2 ETSI ES 202 050 V1.1.5: Sections 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
		CA2436318	10	3GPP TS 22.243 V8.0.0: Sections 1, 3.1, 4, 5, 7; Figure 1 3GPP TS 26.243 V8.0.0: Section 2 3GPP TS 26.177 V8.0.0: Section 2 3GPP ETSI ES 202 050 V1.1.5 sections 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
		CNZL01822358.3	8	3GPP TS 22.243 V8.0.0: Sections 1, 2.2, 3.1, 4, 5, 7; Figure 1 ETSI ES 202 050 V1.1.5: Section 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
		EP1356461 (DE, ES, FR, GB, IT, NL, TR)	10	3GPP TS 22.243 V8.0.0: Sections 1, 3.1, 4, 5, 7; Figure 1 3GPP TS 26.243 V8.0.0: Section 2 3GPP TS 26.177 V8.0.0: Section 2 ETSI ES 202 050 V1.1.5: Sections 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
		HK1057639	10	3GPP TS 22.243 V8.0.0: Sections 1, 2.2, 3.1, 4, 5, 7; Figure 1 3GPP TS 26.243 V8.0.0: Section 2 3GPP TS 26.177 V8.0.0: Section 2 ETSI ES 202 050 V1.1.5: Sections 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
		JP4210521	10	3GPP TS 22.243 V8.0.0: Sections 1, 2.2, 3.1, 4, 5, 7; Figure 1 3GPP TS 26.243 V8.0.0: Section 2 3GPP TS 26.177 V8.0.0: Section 2 ETSI ES 202 050 V1.1.5: Sections 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
		KR100549133	10	3GPP TS 22.243 V8.0.0: Sections 1, 2.2, 3.1, 4, 5, 7; Figure 1 3GPP TS 26.243 V8.0.0: Section 2 3GPP TS 26.177 V8.0.0: Section 2 ETSI ES 202 050 V1.1.5: Sections 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
		MX243041	10	3GPP TS 22.243 V8.0.0: Sections 1, 2.2, 3.1, 4, 5, 7; Figure 1 3GPP TS 26.243 V8.0.0: Section 2 3GPP TS 26.177 V8.0.0: Section 2 ETSI ES 202 050 V1.1.5: Sections 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
		US7313518	10	3GPP TS 22.243 V8.0.0: Sections 1, 2.2, 3.1, 4, 5, 7; Figure 1 3GPP TS 26.243 V8.0.0: Section 2 3GPP TS 26.177 V8.0.0: Section 2 ETSI ES 202 050 V1.1.5: Sections 4, 5.1.1, 5.1.3, 5.1.4, 5.1.5; Figures 4.1, 5.1.5.2				
ORA007	3G Licensing	EP1690361 (DE, FR, GB)			12	3GPP TS 36.211 V10.7.0: Sections 6.3, 6.3.3, 6.3.4.3		
		JP4845738			12	3GPP TS 36.211 V10.7.0: Sections 6.3, 6.3.3, 6.3.4.3		
		KR101092537			12	3GPP TS 36.211 V10.7.0: Sections 6.3, 6.3.3, 6.3.4.3		
		US7933564			1	3GPP TS 36.211 V10.7.0: Sections 6.3, 6.3.2, 6.3.3, 6.3.3.3, 6.3.4, 6.3.4.3; Figure 6.3-1; Table 6.3.3.3-1		
ORA008	3G Licensing	US7860069	14	3GPP TS 23.401 V8.15.0: Sections 1, 4.2.1, 4.7.1, 5.1.2.1; Figures 5.1.2.1-1, 5.3.1.1, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 23.228 V8.12.0: Section 4.3.1 3GPP TS 23.221 V8.9.0: Section 5.6				
ORA030	3G Licensing	US8781469	23	3GPP TS 23.401 V8.15.0: Sections 4.3.2.2, 4.7.5, 5.3.2.1, 5.4.1; Figures 5.3.2.1-1, 5.4.1-1 3GPP TS 23.203 V8.14.0: Sections 3.1, 4.1, 5.2.2 3GPP TS 29.212 V8.15.0: Section 4.5.1				
ORA032	3G Licensing	EP2266351 (DE, ES, FR, GB, IT)	1	3GPP TS 23.327 V8.4.0: Sections 1, 2, 3.2, 4.1, 5.2, 5.2.2, 5.3.3, 5.4, 6.1, 6.3.2.1; Figures 5.2.2-1, 6.1, 6.3.2.1-1 3GPP TS 23.060 V8.15.0: Sections 5.4.1.1, 5.4.1.2, 9.2.1 3GPP TS 23.234 V8.0.0: Sections 5.10.1 IETF RFC 3775: Sections 10.3.2 IETF RFC 5555: Sections 4.4.2.1				
		US8532076	1	3GPP TS 23.327 V8.4.0: Sections 1, 2, 3.2, 4.1, 5.2, 5.2.2, 5.3.3, 5.4, 6.1, 6.3.2.1; Figures 5.2.2-1, 6.1, 6.3.2.1-1 3GPP TS 23.060 V8.15.0: Sections 5.4.1.1, 5.4.1.2, 9.2.1 3GPP TS 23.234 V8.0.0: Sections 5.10.1 IETF RFC 3775: Sections 10.3.2 IETF RFC 5555: Sections 4.4.2.1				

ORA032	3G Licensing	US8964714	1	3GPP TS 23.327 V8.4.0: Sections 1, 2, 3.2, 4.1, 5.2, 5.2.2, 5.3.3, 5.4, 6.1, 6.3.2.1; Figures 5.2.2-1, 6.1, 6.3.2.1-1 3GPP TS 23.060 V8.15.0: Sections 5.4.1.1, 5.4.1.2, 9.2.1 3GPP TS 23.234 V8.0.0: Sections 5.10.1 IETF RFC 3775: Sections 10.3.2 IETF RFC 5555: Sections 4.4.2.1			
ORA039	3G Licensing	CNZL200680017858.2	1	3GPP TS 23.060 V8.9.0: Section 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, 9.6; Figure 1 3GPP TS 23.401 V8.10.0: Sections 3.2, 4.2.1, 4.2.2, 4.3.2.1, 4.3.2.2, 4.4.3.1, 4.4.3.2, 4.4.7.1, 4.4.7.2, 4.4.7.3, 4.7.1, 4.7.2.1, 4.7.2.2; Figure 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.7.2.2-1 3GPP TS 23.402 V8.6.0: Sections 1, 4.2.1, 4.2.2, 4.2.3, 4.3.1.1, 4.3.1.2, 4.3.3.1, 4.3.3.2, 4.3.3.3, 4.3.5, 4.3.5.1, 4.3.5.2, 4.8.1, 4.8.2.1, 4.10.3, 8.5.1; Figure 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, 8.5.1-1 3GPP TS 23.203 V8.11.0: Sections 1, 3.1, 6.1.0, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.4, 6.2.1.0, A.1.0, A.1.1.2, A.1.1.3, A.4.0, A.4.1.1, A.4.1.2, A.5.0, A.5.1.0, A.5.1.1, D.1.1, D.2, H.1, H.2; Figures A.1, A.4, D.1.1, D.2.1			
		EP1869840 (DE, ES, FR, GB, IT, NL, PL, TR)	1	3GPP TS 23.060 V8.9.0: Sections 1, 3.1, 4, 5.1, 5.2.1, 5.3.2, 5.3.2.1, 5.3.2.2, 5.4.1.1, 5.4.1.2, 9.2.1A, 9.6; Figure 1 3GPP TS 23.401 V8.10.0: Sections 3.2, 4.2.1, 4.2.2, 4.3.2.1, 4.3.2.2, 4.4.3.1, 4.4.3.2, 4.4.7.1, 4.4.7.2, 4.4.7.3, 4.7.1, 4.7.2.1, 4.7.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.7.2.2-1 3GPP TS 23.402 V8.6.0: Sections 1, 4.2.1, 4.2.2, 4.2.3, 4.3.1.1, 4.3.1.2, 4.3.3.1, 4.3.3.2, 4.3.3.3, 4.3.5, 4.3.5.1, 4.3.5.2, 4.8.1, 4.8.2.1, 4.10.3 and 8.5.1; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.2.2-2, 4.2.3-1, 4.2.3-2, 4.10.3-1, 4.8.1.1-1, 8.5.1-1 3GPP TS 23.203 V8.11.0: Sections 1, 3.1, 6.1.0, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.4, 6.2.1.0, A.1.0, A.1.1.2, A.1.1.3, A.4.0, A.4.1.1, A.4.1.2, A.5.0, A.5.1.0, A.5.1.1, D.1.1, D.2, H.1, H.2; Figures A.1, A.4, D.1.1, D.2.1			
		IN319027	1	3GPP TS 23.060 V8.9.0: Sections 1, 3.1, 4, 5.1, 5.2.1, 5.3.2, 5.3.2.1, 5.3.2.2, 5.4.1.1, 5.4.1.2, 9.2.1A, 9.6; Figure 1 3GPP TS 23.401 V8.10.0: Sections 3.2, 4.2.1, 4.2.2, 4.3.2.1, 4.3.2.2, 4.4.3.1, 4.4.3.2, 4.4.7.1, 4.4.7.2, 4.4.7.3, 4.7.1, 4.7.2.1, 4.7.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.7.2.2-1 3GPP TS 23.402 V8.6.0: Sections 1, 4.2.1, 4.2.2, 4.2.3, 4.3.1.1, 4.3.1.2, 4.3.3.1, 4.3.3.2, 4.3.3.3, 4.3.5, 4.3.5.1, 4.3.5.2, 4.8.1, 4.8.2.1, 4.10.3, 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, 8.5.1-1 3GPP TS 23.203 V8.11.0: Sections 1, 3.1, 6.1.0, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.4, 6.2.1.0, A.1.0, A.1.1.2, A.1.1.3, A.4.0, A.4.1.1, A.4.1.2, A.5.0, A.5.1.0, A.5.1.1, D.1.1, D.2, H.1, H.2; Figures A.1, A.4, D.1.1, D.2.1			
		JP4933528	1	3GPP TS 23.060 V8.9.0: Sections 1, 3.1, 4, 4.7, 4.7.1, 4.7.2, 4.7.2.1, 5, 5.1, 5.2.1, 5.3.2, 5.3.2.1, 5.3.2.2, 5.4.0, 5.4.1, 5.4.1.1, 5.4.1.2, 9.2.1A, 9.6; Figure 1, 2, 2a 3GPP TS 23.203 V8.11.0: Sections 1, 3.1, 6, 6.1, 6.1.0, 6.1.1, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.4, 6.2.1, 6.2.1.0, Annex A (normative), A.1, A.1.0, A.1.1, A.1.1.1, A.1.1.2, A.1.1.3, A.4, A.4.0, A.4.1, A.4.1.1, A.4.1.2, A.5, A.5.0, A.5.1, A.5.1.0, A.5.1.1, A.5.2, A.5.2.1, Annex D (informative), D.1, D.1.1, D.2, Annex H (normative), H.1, H.2; Figures A.1, D.1.1, D.2.1 3GPP TS 23.401 V8.10.0: Sections 3.2, 4.2, 4.2.1, 4.2.2, 4.3.2, 4.3.2.1, 4.3.2.2, 4.4.3, 4.4.3.1, 4.4.3.2, 4.4.7, 4.4.7.1, 4.4.7.2, 4.4.7.3, 4.7, 4.7.1, 4.7.2, 4.7.2.1, 4.7.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.7.2.2-1 3GPP TS 23.402 V8.6.0: Sections 1, 4.2, 4.2.1, 4.2.2, 4.2.3, 4.3, 4.3.1, 4.3.1.1, 4.3.1.2, 4.3.3, 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, 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, 8.5.1-1			
		US8570936	1	3GPP TS 23.060 V8.9.0: Sections 1, 3.1, 4, 5.1, 5.2.1, 5.3.2, 5.3.2.1, 5.3.2.2, 5.4.1.1, 5.4.1.2, 9.2.1A, 9.6; Figure 1 3GPP TS 23.401 V8.10.0: Sections 3.2, 4.2.1, 4.2.2, 4.3.2.1, 4.3.2.2, 4.4.3.1, 4.4.3.2, 4.4.7.1, 4.4.7.2, 4.4.7.3, 4.7.1, 4.7.2.1, 4.7.2.2; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.7.2.2-1 3GPP TS 23.402 V8.6.0: Sections 1, 4.2.1, 4.2.2, 4.2.3, 4.3.1.1, 4.3.1.2, 4.3.3.1, 4.3.3.2, 4.3.3.3, 4.3.5, 4.3.5.1, 4.3.5.2, 4.8.1, 4.8.2.1, 4.10.3, 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, 8.5.1-1 3GPP TS 23.203 V8.11.0: Sections 1, 3.1, 6.1.0, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.4, 6.2.1.0, A.1.0, A.1.1.2, A.1.1.3, A.4.0, A.4.1.1, A.4.1.2, A.5.0, A.5.1.0, A.5.1.1, D.1.1, D.2, H.1, H.2; Figures A.1, A.4, D.1.1, D.2.1			

ORA040	3G Licensing	CNZL200780009678.4	1	3GPP TS 23.060 V8.15.0: Sections 1, 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, 6.3.2.2; Figures 5.2.1-1, 6.1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, 6.2.6; Figure 6.2a			
		EP1974576 (DE, ES, FR, GB, IT)	1	3GPP TS 23.060 V8.15.0: Sections 1, 4 3GPP TS 23.327 V8.4.0: Sections 1, 4, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, 6.3.2.2; Figures 5.2.1-1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, 6.2.6; Figure 6.2a			
		EP2958292 (DE, ES, FR, GB, IT, NL)	2	3GPP TS 23.060 V8.15.0: Sections 1, 4 3GPP TS 23.327 V8.4.0: Sections 1, 4, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, 6.3.2.2; Figures 5.2.1-1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, 6.2.6; Figure 6.2a			
		HK1219367	2	3GPP TS 23.060 V8.15.0: Sections 1, 4 3GPP TS 23.327 V8.4.0: Sections 1, 4, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, 6.3.2.2; Figures 5.2.1-1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, 6.2.6; Figure 6.2a			
		IN322709	1	3GPP TS 23.060 V8.15.0: Sections 1, 4 3GPP TS 23.327 V8.4.0: Sections 1, 4, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, 6.3.2.2; Figures 5.2.1-1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, 6.2.6; Figure 6.2a			
		US8194608	1	3GPP TS 23.060 V8.15.0: Sections 1, 4 3GPP TS 23.327 V8.4.0: Sections 1, 4, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, 6.3.2.2; Figures 5.2.1-1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, 6.2.6; Figure 6.2a			
		US8565159	2	3GPP TS 23.060 V8.15.0: Sections 1, 4 3GPP TS 23.327 V8.4.0: Sections 1, 4, 4.1, 5.2.1, 5.3.1, 5.3.2, 6.1, 6.3.1, 6.3.2.2; Figures 5.2.1-1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 4, 5.7.1, 6.1.2, 6.2.6; Figure 6.2a			
ORA041	3G Licensing	CNZL200680016492.7	1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.2.1, 5.10.2; Figures 4.2.1-1, 4.2.1-2, 4.7.2.2-1			
		CNZL201110148681.2	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, 5.3.1.1, 5.3.2.1; Figures 4.2.1-2, 4.7.2.2-1			
		JP5384934	1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 3.2, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.1.1, 5.3.2.1, 5.10.2; Figures 4.2.1-1, 4.2.1-2, 4.7.2.2-1			
		US8072923	1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.1.1, 5.3.2.1; Figures 4.2.1-2, 4.7.2.2-1			
		US8971246	1	3GPP TS 23.401 V8.15.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.3.1.1, 5.3.2.1; Figures 4.2.1-2, 4.7.2.2-1			
ORA042	3G Licensing	CNZL200680017166.8	1	3GPP TS 23.060 V8.9.0: Sections 4, 9.2.1A, 9.2.2.1; Figures 63, 64 3GPP TS 23.401 V8.15.0: Sections 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; Figures 4.2.1-2, 4.7.2.2-1 3GPP TS 24.008 V8.10.0: Sections 10.5.6.4; Figure 10.5.137; Table 10.5.155			
		EP1861982 (BE, CH, DE, ES, FR, GB, IT, NL, PL, SE, TR)	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, 5.3.1.1, 5.3.2.1; Figure 4.2.1-2, 4.7.2.2-1 3GPP TS 23.060 V8.9.0: Section 9.2.2.1; Figures 63, 64 3GPP TS 24.008 V8.10.0: Section 10.5.6.4; Figure 10.5.137; Table 10.5.155			
		IN318550	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, 5.3.1.1, 5.3.2.1; Figure 4.2.1-2, 4.7.2.2-1 3GPP TS 23.060 V8.9.0: Section 9.2.2.1; Figures 63, 64 3GPP TS 24.008 V8.10.0: Section 10.5.6.4; Figure 10.5.137; Table 10.5.155			
		JP4970422	1	3GPP TS 23.401 V8.15.0: Sections 1, 3, 3.1, 4, 4.1, 4.2, 4.2.1, 4.4.3, 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.7, 4.7.1, 4.7.2, 4.7.2.1, 4.7.2.2, 5.3.2, 5.3.2.1; Figures 4.2.1-1, 4.2.1-2, 4.7.2.2-1 3GPP TS 23.060 V8.9.0: Sections 9.2.2, 9.2.2.1; Figures 63, 64 3GPP TS 24.008 V8.10.0: Section 10.5.6.4; Figure 10.5.137; Table 10.5.155			

ORA042	3G Licensing	US8064384	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, 5.3.1.1, 5.3.2.1; Figure 4.2.1-2, 4.7.2.2-1 3GPP TS 23.060 V8.9.0: Section 9.2.2.1; Figures 63, 64 3GPP TS 24.008 V8.10.0: Section 10.5.6.4; Figure 10.5.137; Table 10.5.155			
		US9001732	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, 5.3.1.1, 5.3.2.1; Figure 4.2.1-2, 4.7.2.2-1 3GPP TS 23.060 V8.9.0: Section 9.2.2.1; Figures 63, 64 3GPP TS 24.008 V8.10.0: Section 10.5.6.4; Figure 10.5.137; Table 10.5.155			
ORA043	3G Licensing	EP1869841 (DE, FR, GB)	1	3GPP TS 23.060 V8.7.0: Sections 9.2.1A, 9.2.1.1, 9.2.2.1, 9.2.2.1.1, 15.3.0, 15.3.1; Figures 63, 64 3GPP TS 23.207 V8.0.0: Sections 4.2, 4.7, 5.1, 5.2, 5.2.1, 5.2.2, 6.1, 6.1.1, 6.1.2, 6.4; Figures A.7; Annex A, A.2, A.2.5, Annex C; Figure A.7 3GPP TS 23.228 V8.12.0: Sections 4.0, 4.2.4, 4.2.4a, 4.6.0, 4.6.1, 4.6.3, 5.4.0, 5.4.2a; Figures 4.0, 5.5b; Annex E, E.0, E.5 3GPP TS 23.401 V8.8.0: Sections 1, 4.2.1, 4.2.2, 4.4.4; Figures 4.2.1-1, 4.2.1-2, 4.2.2-1, 4.2.2-2, 4.2.2-3 3GPP TS 24.008 V9.3.0: Sections 9.5.4, 9.5.4.1, 10.5.6.12; Tables 9.5.4, 10.5.162 3GPP TS 24.229 V8.11.0: Annex B, B.1, B.2.1, B.2.2.1, B.2.2.5.1, B.2.2.5.1A, B.2.2.5.1B 3GPP TS 29.060 V9.3.0: Section 7.7.36			
ORA046	3G Licensing	CNZL200580025881.1	1	3GPP TS 29.060 V8.3.0: Section 3.1 3GPP TS 23.401 V8.10.0: Sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2; Figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, 5.1.2.5-1 3GPP TS 29.061 V8.6.0: Sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4, 11.2.1.3.1, 11.3; Figures 11c, 11d, 11e, 11bb, 11ba 3GPP TS 23.060 V8.10.0: Sections 9.2.2, 9.2.2.1, 9.2.2.1A, 14.5; Figures 63, 64			
		EP1772030 (DE, ES, FR, GB)	1	3GPP TS 23.401 V8.10.0 Sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, 14.5; Figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, 5.1.2.5-1 3GPP TS 29.060 V8.3.0: Sections 3.1, 7.3, 7.3.1, 7.3.2, 7.7.13; Table 6; Figure 21 3GPP TS 23.060 V8.10.0: Sections 9.2.2, 9.2.2.1, 9.2.2.1A; Figures 63, 64 3GPP TS 29.061 V8.6.0: Section 11.2.1.3, 11.2.1.3.1, 11.2.1.3.2, 11.2.1.4, 11.3; Figures 11ba, 11bb			
		IN271359	1	3GPP TS 23.401 V8.10.0: Sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, 14.5; Figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, 5.1.2.5-1 3GPP TS 29.060 V8.3.0: Sections 3.1, 7.3, 7.3.1, 7.3.2, 7.7.13; Table 6; Figure 21 3GPP TS 23.060 V8.10.0: Sections 9.2.2, 9.2.2.1, 9.2.2.1A; Figures 63, 64 3GPP TS 29.061 V8.6.0: Sections 11.2.1.3, 11.2.1.3.1, 11.2.1.3.2, 11.2.1.4, 11.3; Figures 11ba, 11bb			
		US10200511	1	3GPP TS 23.401 V8.10.0: Sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, 14.5; Figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, 5.1.2.5-1 3GPP TS 29.060 V8.3.0: Sections 3.1, 7.3, 7.3.1, 7.3.2, 7.7.13; Table 6; Figure 21 3GPP TS 23.060 V8.10.0: Sections 9.2.2, 9.2.2.1, 9.2.2.1A; Figures 63, 64 3GPP TS 29.061 V8.6.0: Sections 11.2.1.3, 11.2.1.3.1, 11.2.1.3.2, 11.2.1.4, 11.3; Figures 11ba, 11bb			
		US8179888	1	3GPP TS 23.401 V8.10.0: Sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, 14.5; Figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, 5.1.2.5-1 3GPP TS 29.060 V8.3.0: Sections 3.1, 7.3, 7.3.1, 7.3.2, 7.7.13; Table 6; Figure 21 3GPP TS 23.060 V8.10.0: Sections 9.2.2, 9.2.2.1, 9.2.2.1A; Figures 63, 64 3GPP TS 29.061 V8.6.0: Sections 11.2.1.3, 11.2.1.3.1, 11.2.1.3.2, 11.2.1.4, 11.3; Figures 11ba, 11bb			

ORA046	3G Licensing	US9237058	1	3GPP TS 23.401 V8.10.0: Sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, 14.5; Figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, 5.1.2.5-1 3GPP TS 29.060 V8.3.0: Sections 3.1, 7.3, 7.3.1, 7.3.2, 7.7.13; Table 6; Figure 21 3GPP TS 23.060 V8.10.0: Sections 9.2.2, 9.2.2.1, 9.2.2.1A; Figures 63, 64 3GPP TS 29.061 V8.6.0: Sections 11.2.1.3, 11.2.1.3.1, 11.2.1.3.2, 11.2.1.4, 11.3; Figures 11ba, 11bb			
ORA047	3G Licensing	CNZL200580024907.0	1	3GPP TS 23.401 V8.10.0: Sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1.1, 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, 5.1.2.5-1 3GPP TS 29.060 V8.3.0: Sections 3.1, 7.3.1, 7.3.2, 7.7.13; Table 6; Figure 21 3GPP TS 23.060 V8.10.0: Sections 9.2.1.1, 9.2.2, 9.2.2.1, 9.2.2.1A; Figures 62, 63, 64 3GPP TS 29.061 V8.6.0: Sections 11.2.1, 11.2.1.3, 11.2.1.3.2, 11.2.1.4; Figure 11bb			
		EP1771978 (CH, DE, ES, FR, GB, IT)	1	3GPP TS 23.401 V8.10.0: Sections 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.2, 5.3.1.2.1, 5.3.1.2.2, 14.5; Figures 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, 5.1.2.5-1 3GPP TS 29.060 V8.3.0: Sections 3.1, 7.3, 7.3.1, 7.3.2, 7.7.13; Table 6; Figure 21 3GPP TS 23.060 V8.10.0: Sections 9, 9.1, 9.1.0, 9.2.1.1, 9.2.2, 9.2.2.1, 9.2.2.1A, 9.2.3, 9.2.3.0, 9.2.3.3, 15.3, 15.3.0, 45.3.1; Figures 62, 63, 64 3GPP TS 29.061 V8.6.0: Sections 11.2.1, 11.2.1.3, 11.2.1.3.1, 11.2.1.3.2, 11.2.1.4, 11.3; Figure 11ba 3GPP TS 24.008 V8.10.0: Sections 9.5.10, 9.5.10.3, 10.5.6.12; Tables 9.5.10, 10.2.162, 10.5.144, 10.5.144a, 10.5.144b, 10.5.144c			
		IN272738	1	3GPP TS 23.060 v8.17.0: Sections 5.6.2.2, 9.2.1, 9.2.1.1, 9.2.2.1, 9.3; Figures 6a, 63 3GPP TS 24.008 v8.19.0: Sections 9.5.1, 10.5.6.4 3GPP TS 29.061 v8.12.0: Sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4; Figures 11bb IETF RFC 4291: Section 2.5.1			
		US7860073	1	3GPP TS 23.060 v8.17.0: Sections 5.6.2.2, 9.2.1, 9.2.1.1, 9.2.2.1, 9.3; Figures 6a, 63 3GPP TS 24.008 v8.19.0: Sections 9.5.1, 10.5.6.4 3GPP TS 29.061 v8.12.0: Sections 11.2.1.3, 11.2.1.3.2, 11.2.1.4; Figures 11bb IETF RFC 4291: Section 2.5.1			
ORA048	3G Licensing	CNZL200580020466.7	1	3GPP TS29.060 V8.11.0: Sections 3.1, 4.1; Figure 1 3GPP TS23.401 V8.10.0: Sections 5, 5.1, 5.1.1, 5.1.1.1, 5.1.1.4, 5.1.1.5, 5.1.1.6, 5.1.1.7, 5.1.1.8, 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5; Figures 5.1.1.4-1, 5.1.1.5-1, 5.1.1.6-1, 5.1.1.7-1, 5.1.1.8-1, 5.1.2.1-1, 5.1.2.2-1, 5.1.2.3-1, 5.1.2.4-1, 5.1.2.5-1 3GPP TS 23.402 V8.8.0: Sections 4.3.3, 4.3.3.2, 4.3.3.3, 4.3.4, 5, 5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.3.1, 5.1.4, 5.1.4.1, 5.1.4.2, 5.1.4.3, 5.1.4.4, Annex A, A.1, A.2; Figures 5.1.4.4-1, 5.1.3.1-1, 5.1.4.1-1, 5.1.4.2-1, 5.1.4.3-1, A.1-1, A.1-2, A.2-1, A.1-3 3GPP TS 23.228 V8.12.0: Sections 5.4.2a, Annex E, E.0, E.5; Figure 5.5b 3GPP TS 23.060 V8.7.0: Sections 4, 5.3.2.4, 5.3.2.5, 5.5, 5.6.2, 5.6.2.1, 5.6.2.2, 5.6.3, 5.6.3.1, 5.6.3.2, 9.2.1, 9.2.2.1; Figures 6a, 6b, 6c, 6d, 7, 8, 63, 64; Table 1			
		EP1741264 (DE, ES, FR, GB, IT)	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; Figures 5.1.1.4-1, 5.1.1.5, 5.1.1.5-1, 5.1.1.6, 5.1.1.6-1, 5.1.1.7, 5.1.1.7-1, 5.1.1.8, 5.1.1.8-1, 5.1.2.1, 5.1.2.1-1, 5.1.2.2, 5.1.2.2-1, 5.1.2.3, 5.1.2.3-1, 5.1.2.4, 5.1.2.4-1, 5.1.2.5, 5.1.2.5-1 3GPP TS 23.402 V8.8.0: Sections 1, 4.2.2; Figures 4.2.2-2, 4.3.3.2, 4.3.3.3, 4.3.4, 5.1.2, 5.1.4.1, 5.1.4-1, 5.1.4.2, 5.1.4.2-1, 5.1.4.3, 5.1.4.3-1, 5.1.4.4, 5.1.4.4-1, 5.1.3.1, 5.1.3.1-1, 6.1.2, 6.1.2-1; Annex A, A.1; Figures A.1-1, A.1-2, A.1-3, A.2, 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; Figures 6a, 6b, 6c, 6d, 5.6.3, 5.6.3.1, 5.6.3.2, 7, 8, 9.2.1, 9.2.2.1, 63, 64			
		IN255363	1	3GPP TS 23.060 V8.7.0: Sections 4, 5.1, 5.3.2.4, 5.3.2.5, 5.6.2, 5.6.2.1, 5.6.2.2, 5.6.2.4, 5.6.2.5, 9.2.1, 9.2.2.1			

ORA048	3G Licensing	JP4660539	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; Figures 5.1.1.4-1, 5.1.1.5, 5.1.1.5-1, 5.1.1.6, 5.1.1.6-1, 5.1.1.7, 5.1.1.7-1, 5.1.1.8, 5.1.1.8-1, 5.1.2.1, 5.1.2.1-1, 5.1.2.2, 5.1.2.2-1, 5.1.2.3, 5.1.2.3-1, 5.1.2.4, 5.1.2.4-1, 5.1.2.5, 5.1.2.5-1 3GPP TS 23.402 V8.8.0: Sections 1, 4.2.2; Figures 4.2.2-2, 4.3.3.2, 4.3.3.3, 4.3.4, 5.1.2, 5.1.4.1, 5.1.4-1, 5.1.4.2, 5.1.4.2-1, 5.1.4.3, 5.1.4.3-1, 5.1.4.4, 5.1.4.4-1, 5.1.3.1, 5.1.3.1-1, 6.1.2, 6.1.2-1; Annex A, A.1; Figures A.1-1, A.1-2, A.1-3, A.2, 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; Figures 6a, 6b, 6c, 6d, 5.6.3, 5.6.3.1, 5.6.3.2, 7, 8, 9.2.1, 9.2.2.1, 63, 64			
		US7907618	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; Figures 5.1.1.4-1, 5.1.1.5, 5.1.1.5-1, 5.1.1.6, 5.1.1.6-1, 5.1.1.7, 5.1.1.7-1, 5.1.1.8, 5.1.1.8-1, 5.1.2.1, 5.1.2.1-1, 5.1.2.2, 5.1.2.2-1, 5.1.2.3, 5.1.2.3-1, 5.1.2.4, 5.1.2.4-1, 5.1.2.5, 5.1.2.5-1 3GPP TS 23.402 V8.8.0: Sections 1, 4.2.2; Figures 4.2.2-2, 4.3.3.2, 4.3.3.3, 4.3.4, 5.1.2, 5.1.4.1, 5.1.4-1, 5.1.4.2, 5.1.4.2-1, 5.1.4.3, 5.1.4.3-1, 5.1.4.4, 5.1.4.4-1, 5.1.3.1, 5.1.3.1-1, 6.1.2, 6.1.2-1; Annex A, A.1; Figures A.1-1, A.1-2, A.1-3, A.2, 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; Figures 6a, 6b, 6c, 6d, 5.6.3, 5.6.3.1, 5.6.3.2, 7, 8, 9.2.1, 9.2.2.1, 63, 64			
ORA049	3G Licensing	US7995523	1, 12	3GPP TS 23.401 V8.17.0: Sections 1, 4.2.1, 4.2.3, 4.7.1, 4.7.2.1, 4.7.2.2, 5.4.5; Figures 4.2.1-1, 5.4.5-1 3GPP TS 24.303 V8.9.0: Sections 1, 4.1, 5.1.1, 5.1.2.3, 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, 11.7.1			
ORA052	3G Licensing	CNZL200480006637.6	1	3GPP TS 23.401 V8.10.0: Section 4.2.2; Figure 4.2.2-3 3GPP TS 23.060 V8.9.0: Sections 9.2.2, 9.2.2.1; Figures 63, 64 3GPP TS 24.008 V8.10.0: Section 10.5.6.4; Figure 10.5.137; Table 10.5.155 3GPP TS 29.061 V8.7.0: Section 11.2.1.4; Figures 11c, 11d, 11e 3GPP TS 23.228 V8.12.0: Sections 3.1, Annex I.1, I.2, I.3, I.3.1, and I.3.1.2; Figures I.1, I.3 IETF REC. 3344: Sections 1.5, 1.7, 3			
		EP1602215 (DE, FR, GB)	1	3GPP TS 23.401 V8.10.0: Section 4.2.2; Figure 4.2.2-3 3GPP TS 23.060 V8.9.0: Sections 9.2.2, 9.2.2.1, 9.2.3.2; Figures 63, 64, 71a, 71b 3GPP TS 24.008 V8.10.0: Section 10.5.6.4; Figure 10.5.137; Table 10.5.155 3GPP TS 29.061 V8.7.0: Section 11.2.1.4; Figures 11, 11c, 11d 3GPP TS 23.228 V8.12.0: Sections 3.1, I.1, I.2, I.3, I.3.1, I.3.1.2; Figures I.1, I.3 IETF REC. 3344: Sections 1.5, 1.7, 3			
		IN227148	1	3GPP TS 29.061 V8.7.0: Section 11.2.1.4; Figure 11e 3GPP TS 23.060 V8.9.0: Sections 9.2.2.1, 9.2.3.2			
		JP5248586	1	3GPP TS 23.401 V8.10.0: Section 4.2.2; Figure 4.2.2-3 3GPP TS 23.060 V8.9.0: Sections 9.2.2, 9.2.2.1, 9.2.3.2; Figures 63, 64, 71a, 71b 3GPP TS 24.008 V8.10.0: Sections 10.5.6.4; Figure 10.5.137; Table 10.5.155 3GPP TS 29.061 V8.7.0: Sections 11.2.1.4; Figures 11c, 11d, 11e IETF REC. 3344: Sections 1.5, 1.7, 3			
		KR101007005	1	3GPP TS 23.060 V8.9.0: Section 9.2.3.2 3GPP TS 23.401 V8.10.0: Section 4.2.2 3GPP TS 29.061 V8.7.0: Section 11.2.1.4			
		US7640017	1	3GPP TS 23.401 V8.10.0: Section 4.2.2; Figure 4.2.2-3 3GPP TS 23.060 V8.9.0: Sections 9.2.2, 9.2.2.1, 9.2.3.2; Figures 63, 64, 71a, 71b 3GPP TS 24.008 V8.10.0: Section 10.5.6.4; Figure 10.5.137; Table 10.5.155 3GPP TS 29.061 V8.7.0: Section 11.2.1.4; Figures 11, 11c, 11d 3GPP TS 23.228 V8.12.0: Sections 3.1, I.1, I.2, I.3, I.3.1, I.3.1.2; Figures I.1, I.3			

ORA052	3G Licensing	US8023946	1	3GPP TS 23.401 V8.10.0: Section 4.2.2; Figure 4.2.2-3 3GPP TS 23.060 V8.9.0: Sections 9.2.2, 9.2.2.1, 9.2.3.2; Figures 63, 64, 71a, 71b 3GPP TS 24.008 V8.10.0: Sections 10.5.6.4; Figure 10.5.137; Table 10.5.155 3GPP TS 29.061 V8.7.0: Sections 11.2.1.4; Figures 11c, 11d, 11e IETF RFC 3344: Sections 1.5, 1.7, 3			
ORA058	3G Licensing	CNZL200780010663.X	20	3GPP TS 23.327 V8.4.0: Sections 5, 5.2, 5.2.1, 5.3, 5.3.1, 5.3.2, 5.4, 6, 6.1, 6.3, 6.3.1, 6.3.2, 6.3.2.2; Figures 5.2.1-1, 6.1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 2, 5, 5.13, 5.13.1, 5.13.2, 5.7, 5.7.1, 6, 6.1, 6.1.1, 6.2, 6.2.1, 6.2.5, 6.2.6; Figure 6.1 3GPP TS 23.107 V8.2.0: Section 6.3			
		EP1838044 (DE, ES, FR, GB, IT)	20	3GPP TS 23.234 V8.0.0: Sections 1, 5.13.3, 3GPP TS 23.327 V8.4.0: Sections 5.3.1, 6.3.1; Figures 6.3.1-1 IETF RFC 2474: Section 3	20	3GPP TS 23.327 V8.4.0: Sections 5, 5.2, 5.2.1, 5.3, 5.3.1, 5.3.2, 5.4, 6, 6.1, 6.3, 6.3.1, 6.3.2, 6.3.2.2; Figures 5.2.1-1, 6.1, 6.3.1-1, 6.3.2.2-1 3GPP TS 23.234 V8.0.0: Sections 1, 2, 5, 5.13, 5.13.1, 5.13.2, 5.7, 5.7.1, 6, 6.1, 6.1.1, 6.2, 6.2.1, 6.2.5, 6.2.6; Figure 6.1 3GPP TS 23.107 V8.2.0: Section 6.3	
		IN300291	11	3GPP TS 23.234 V8.0.0: Sections 1, 5.13.3, 3GPP TS 23.327 V8.4.0: Sections 5.3.1, 6.3.1; Figures 6.3.1-1 IETF RFC 2474: Section 3			
ORA059	3G Licensing	CNZL200780010562.2	1	3GPP TS 23.060 V8.15.0: Sections 4, 5.1, 5.2, 5.2.1, 5.3.0, 5.3.1, 5.3.1.1, 5.3.2, 5.3.3.1, 5.6.2.2, 9.2.2.1; Figures 6a, 63, 64 3GPP TS 23.107 V8.2.0: Sections 6.4.3.1, 6.4.3.2 3GPP TS 24.008 V8.16.0: Sections 9.5.1, 10.5.6.5; Figure 10.5.138; Table 9.5.1, 10.5.156			
		IN282457	18	3GPP TS 23.060 V8.15.0: Sections 4, 5.1, 5.2, 5.2.1, 5.3.0, 5.3.1, 5.3.1.1, 5.3.2, 5.3.3.1, 5.6.2.2, 9.2.2.1; Figures 6a, 63, 64 3GPP TS 23.107 V8.2.0: Sections 6.4.3.1, 6.4.3.2 3GPP TS 24.008 V8.16.0: Section 9.5.1, 10.5.6.5; Tables 9.5.1, 10.5.156; Figure 10.5.138			
		JP5740672	18	3GPP TS 23.060 V8.15.0: Sections 4, 5.1, 5.2, 5.2.1, 5.3.0, 5.3.1, 5.3.1.1, 5.3.2, 5.3.3.1, 5.6.2.2, 9.2.2.1; Figures 6a, 63, 64 3GPP TS 23.107 V8.2.0: Sections 6.4.3.1, 6.4.3.2 3GPP TS 24.008 V8.16.0: Section 9.5.1, 10.5.6.5; Tables 9.5.1, 10.5.156; Figure 10.5.138			
		US8184646	18	3GPP TS 23.060 V8.15.0: Sections 4, 5.1, 5.2, 5.2.1, 5.3.0, 5.3.1, 5.3.1.1, 5.3.2, 5.3.3.1, 5.6.2.2, 9.2.2.1; Figures 6a, 63, 64 3GPP TS 23.107 V8.2.0: Sections 6.4.3.1, 6.4.3.2 3GPP TS 24.008 V8.16.0: Section 9.5.1, 10.5.6.5; Tables 9.5.1, 10.5.156; Figure 10.5.138			
ORA063*	3G Licensing	EP0562890 (AT, BE, ES, GB, IE, IT, LU, NL)	1, 5	3GPP TS 100 922 V8.0.0: Sections 1, 6.2 3GPP TS 101 622 V6.0.1: Sections 4.3, 5, 5.2 3GPP TS 122 038 V3.4.0: Sections 9.1 3GPP TS 100 977 V8.13.0: Annex E, Annex I 3GPP TS 101 267 V8.17.0: Sections 3.2, 7, 7.1, 7.1.1, 7.1.2 3GPP TS 122.003 V6.0.0: Annex A.1.3.4, A.1.3.4.2 3GPP TS 123.040 V3.9.0: Sections 3.1, 3.2.3, 9.2.3, 9.2.3.9, 9.2.3.22, 9.2.3.24, 9.2.3.24.10, 9.2.3.24.10.1, 9.2.3.24.10.1.1; Figure 1			
		HK1005009	1, 5	3GPP TS 22.038 V 3.4.0: Section 9.1 3GPP TS 11.14 V 8.17.0: Sections 3.2, 7.1.1, 7.1.2 3GPP TS 22.003 V 6.0.0: Sections A.1.3.4 3GPP TS 23.040 V 3.9.0: Sections 3.1, 3.2.3, 9.2.3, 9.2.3.22, 9.2.3.24, 9.2.3.24.10.1, 9.2.3.24.10.1.1, 9.2.3.9 3GPP TS 11.11 V 8.13.0: Sections Annex F, Annex I			
ORA064*	3G Licensing	AU729163	18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1, 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1, 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 ETSI TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K and K.2; Figure 8.2, 8.4, K.1; Table 8.1, 11.11			
		CA2280150	18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1, 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1, 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 3GPP TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K, K.2; Figure 8.2, 8.4, K.1; Table 8.1, 11.11			

ORA064*	3G Licensing	CNZL98802464.0	18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1, 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1, 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 ETSI TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.5.2, Annex K, K.2; Figure 8.2, 8.4, K.1; Table 8.1, 11.11				
		EP0960542 (DE, ES, FR, GB, IT)	18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1, 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1, 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1				
		IN208486	18	3GPP TS 21.111 V7.1.0: Sections 4, 10.2.2, 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1; Figures 4.1, 4.2 ETSI TS 102.221 V7.4.0: Sections 7.3.1.1, 8.2.2.1, 8.2.2.2, 8.2.2.3, 8.2.2.4, 11.1.5.1; Figures 8.2, 8.3				
		JP4357596	18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1, 11.2 3GPP TS 31.101 V7.0.1: Section 8.1 3GPP TS 31.102 V7.13.0: Sections 3.3, 4.4.2, 4.7, 5.1.1.1, 5.3.29; Figure 4.2 ETSI TS 102.221 V7.4.0: Sections 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, 11.1.6.1, Annex K, K.1, K.2; Figures 8.2, 8.4, K.1; Table 8.1				
		US6856818	18	3GPP TS 21.111 V7.1.0: Sections 1, 4, 5.1, 5.2, 6.1, 11.2 3GPP TS 31.102 V7.13.0: Sections 4.4.2, 4.7, 5.1.1.1, 5.3.29; Figure 4.2 3GPP TS 31.101 V7.0.1: Section 8.1 ETSI TS 102.221 V7.4.0: Sections 3.1, 8.2.2.2, 8.4.1, 8.4.3, 11.1.1.1, 11.1.3.1, 11.1.5.1, Annex K, K.2; Figure 8.2, 8.4, K.1; Table 8.1				
ORA065	3G Licensing	CNZL01818343.3	8	3GPP TS 22.279 V7.1.0: Sections 1, 2, 3.1, 6, 8 3GPP TS 23.279 V7.7.0: Sections 8.1, 8.3.1, 8.3.2; Figures 8-1, 8.3-1, 8.3-2 3GPP TS 23.228 V7.16.0: Sections 4.13.2, 4.13.3; Figure 4.13-1 3GPP TS 24.173 V9.1.0: Sections 4.2, 5.1, 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, 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, 7.3.1.9				
		CNZL200510097414.1	1	3GPP TS 23.060 V8.9.0: Sections 5.1, 5.3.8, 5.4.6, 9.2.3.3; Figures 1, 72b 3GPP TS 23.228 V8.12.0: Sections 4.0, 4.16.1, 4.16.2, 5.4.4, 5.10.3.0, Annex E, E.0, E.2.1a.2, E.2.4.0, E.2.4.1; Figure E.2 3GPP TS 23.401 V8.17.0: Sections 4.7.1, 4.7.2.2; Figure 4.7.2.2-1				
		EP1921855 (DE, ES, FR, GB, IE, IT, LU, NL, TR)	1	3GPP TS 23.060 V8.9.0: Sections 5.1, 5.3.8, 5.4.6, 9.2.3.3; Figures 1, 72b 3GPP TS 23.228 V8.12.0: Sections 4.0, 4.16.1, 4.16.2, 5.4.4.5, 5.10.3.1, Annex E, E.0, E.2.1a.1, E.2.1a.2, E.2.4.0, E.2.4.1; Figure E.2 3GPP TS 23.401 V8.17.0: Sections 4.7.1, 4.7.2.2; Figure 4.7.2.2-1				
		US7102663	26	3GPP TS 24.173 V9.1.0: Sections 4.2, 5.2 3GPP TS 22.279 V7.1.0: Sections 1, 2, 3.1, 6, 8 3GPP TS 23.279 V7.7.0: Sections 8.1, 8.3.1, 8.3.2; Figures 8-1, 8.3-1, 8.3-2 3GPP TS 23.228 V7.16.0: Sections 4.13.2, 4.13.3 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, 7.9.3 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, 7.3.1.9				
		US7995091	1	3GPP TS 23.060 V8.9.0: Sections 5.1, 5.3.8, 5.4.6, 9.2.3.3; Figures 1, 72b 3GPP TS 23.228 V8.12.0: Sections 4.0, 4.16.1, 4.16.2, 5.4.4.5, 5.10.3.1, Annex E, E.0, E.2.1a.1, E.2.1a.2, E.2.4.0, E.2.4.1; Figure E.2 3GPP TS 23.401 V8.17.0: Sections 4.7.1, 4.7.2.2; Figure 4.7.2.2-1				
SIE001	Siemens	AU2004214376	1	3GPP TS 33.220 V8.5.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4	1	3GPP TS 33.220 V8.5.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4	1	3GPP TS 33.220 V15.4.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4
		BRPI0407702.4	1	3GPP TS 33.220 V8.5.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4	1	3GPP TS 33.220 V8.5.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4	1	3GPP TS 33.220 V15.4.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4
		CNZL200480004608.6	1	3GPP TS 33.220 V8.5.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4	1	3GPP TS 33.220 V8.5.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4	1	3GPP TS 33.220 V15.4.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4
		EP1595420 (DE, ES, FI, FR, GB, IT, NL, SE, TR)	1	3GPP TS 33.220 V8.5.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4	1	3GPP TS 33.220 V8.5.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4	1	3GPP TS 33.220 V15.4.0: Sections 1, 3.1, 4.1, 4.2.1, 4.2.2, 4.2.4, 4.4.11, 4.5.2, 4.5.3, Annex B.2, Annex B.3; Figures 4.1, 4.3, 4.4

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SIE009	Siemens	CNZL200680041147.9	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3, 4.4.1; Figures 4.2.2-1, 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1, 7.1.2.1.1; Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.3.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V15.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2
		EP1943806 (DE, ES, FR, GB)	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3, 4.4.1; Figures 4.2.2-1, 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1, 7.1.2.1.1; Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.3.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V15.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2
		JP4681656	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3, 4.4.1; Figures 4.2.2-1, 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1, 7.1.2.1.1; Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.3.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V15.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2
		KR100945612	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3, 4.4.1; Figures 4.2.2-1, 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1, 7.1.2.1.1; Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.3.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V15.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2
		US8769261	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3, 4.4.1; Figures 4.2.2-1, 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1, 7.1.2.1.1; Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.0.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V14.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2	1	3GPP TS23.402 V15.3.0: Sections 4.1.3.2, 4.2.2, 4.2.3 and 4.4.1, Figures 4.2.2-1 and 4.2.3-1 3GPP TS29.273 V15.3.0: Sections 7, 7.1, 7.1.1 and 7.1.2.1.1, Table 7.1.2.1.1/2
SIE010	Siemens	CNZL200680020548.6	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V15.4.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3
		EP1889503 (DE, ES, FR, GB, IT, PL)	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V15.4.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3
		JP4663011	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V15.4.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3
		KR100980132	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V15.4.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3
		US8291222	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V12.3.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3	1	3GPP TS 33.220 V15.4.0: Sections 4.1, 4.4.9, I.2.1, I.5.2; Figures 4.1, I.3
SIE011	Siemens	CNZL200680041205.8	1	3GPP TS 33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS 33.402 V15.3.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.1.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.3.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2
		EP1943855 (DE, ES, FR, GB, IT, PL)	1	3GPP TS 33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS 33.402 V15.3.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.1.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.3.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2
		JP4806028	1	3GPP TS 33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS 33.402 V15.3.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.1.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.3.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2
		KR100960747	1	3GPP TS 33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS 33.402 V15.3.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.1.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.3.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2
		US8533471	1	3GPP TS 33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS33.402 V15.0.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS23.402 V15.0.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS29.273 V15.0.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2	1	3GPP TS 33.402 V15.3.0: Sections 6.2, 9.2.1; Figures 6.2-1, 9.2.1.2.1-1 3GPP TS 23.402 V15.1.0: Sections 4.2.2, 4.3.3.3, 4.6.1, 6.2.3; Figures 4.2.2-1, 6.2.3-1 3GPP TS 29.273 V15.3.0: Section 9.1.2.6; Tables 9.1.2.6.1/1, 9.1.2.6.1/2
SIE012	Siemens	BRPI0409400.0			1	3GPP TS 23.379 V14.7.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1	1	3GPP TS 23.379 V15.6.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1
		CNZL200480009912.X			1	3GPP TS 23.379 V14.7.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1	1	3GPP TS 23.379 V15.6.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1
		EP1597935 (DE, ES, FR, GB, IT)			1	3GPP TS 23.379 V14.7.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1	1	3GPP TS 23.379 V15.6.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1
		IN258504			1	3GPP TS 23.379 V14.7.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1	1	3GPP TS 23.379 V15.6.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1
		US7203509			1	3GPP TS 23.379 V14.7.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1	1	3GPP TS 23.379 V15.6.0: Sections 1, 7.3.1, 7.4.2.3.2, 10.4.1, 10.4.2.1, 10.9.1.1, 10.9.1.2.1, 10.9.1.2.2, 10.9.1.2.3; Figure 7.3.1; Tables 10.4.2.1-1, 10.9.1.2.2-1, 10.9.1.2.3-1

SIE013	Siemens	CNZL200580025538.7	1	3GPP TS 23.228 V14.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V14.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1	1	3GPP TS 23.228 V14.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V14.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1	1	3GPP TS 23.228 V15.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V15.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1
		EP1771993 (DE, FR, GB)	1	3GPP TS 23.228 V14.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V14.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1	1	3GPP TS 23.228 V14.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V14.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1	1	3GPP TS 23.228 V15.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V15.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1
		KR100912972	1	3GPP TS 23.228 V14.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V14.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1	1	3GPP TS 23.228 V14.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V14.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1	1	3GPP TS 23.228 V15.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V15.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1
		US8305902	1	3GPP TS 23.228 V14.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V14.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1	1	3GPP TS 23.228 V14.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V14.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1	1	3GPP TS 23.228 V15.4.0: Sections 4.0, 5.1.4, 5.2.2.3, 5.6.1; Figures 4.0, 5.1 3GPP TS 23.218 V15.0.0: Sections 3.1, 5.1A, 5.1B, 5.2.1, 6.3, 6.4.2, 6.9.1
SIE014	Siemens	CNZL200480039818.9	1	3GPP TS 33.246 V9.0.0: Sections 3.1, 3.2, 4.1.1, 4.1.3, 6.3.1, 6.3.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.5.4, Annexes D.1, D.3; Figures 4.1, 4.2b, 6.4b, 6.5, 6.7	1	3GPP TS 33.246 V9.0.0: Sections 3.1, 3.2, 4.1.1, 4.1.3, 6.3.1, 6.3.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.5.4, Annexes D.1, D.3; Figures 4.1, 4.2b, 6.4b, 6.5, 6.7	1	3GPP TS 33.246 V15.0.0: Sections 3.1, 3.2, 4.1.1, 4.1.3, 6.3.1, 6.3.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.5.4, Annexes D.1, D.3; Figures 4.1, 4.2b, 6.4b, 6.5, 6.7
		CNZL201010260863.4	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4; Figures 4.1, 4.2b, 6.5; Annex D	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5	1	3GPP TS 33.246 V15.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5
		EP1680906 (AT, CH, DE, ES, FR, GB, IT, NL, SE)	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4; Figures 4.1, 4.2b, 6.5; Annex D	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5	1	3GPP TS 33.246 V15.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5
		IDP0021408	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4; Figures 4.1, 4.2b, 6.5; Annex D	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5	1	3GPP TS 33.246 V15.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5
		MX263723	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4; Figures 4.1, 4.2b, 6.5; Annex D	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5	1	3GPP TS 33.246 V15.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5
		RU2358406	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4; Figures 4.1, 4.2b, 6.5; Annex D	1	3GPP TS 33.246 V9.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5	1	3GPP TS 33.246 V15.0.0: Sections 3, 3.1, 3.2, 4.1.1, 4.1.3, 5, 6.3.1, 6.3.3.2.1, 6.4.1, 6.4.4, 6.4.5.1, 6.4.5.3, 6.5.4, D1, D3; Figures 4.1, 4.2b, 6.5
SIE015	Siemens	BRPI0407837.3	1	3GPP TS 26.233 V10.0.0: Sections 2, 10	1	3GPP TS 26.233 V10.0.0: Sections 2, 10	1	3GPP TS 26.233 V15.0.0: Sections 2, 10
		CNZL201310065093.1	9	3GPP TS 26.233 V10.0.0: Sections 2, 10	9	3GPP TS 26.233 V10.0.0: Sections 2, 10	9	3GPP TS 26.233 V15.0.0: Sections 2, 10
		EP1597894 (DE, ES, FR, GB, IT, NL, SE)	1	3GPP TS 26.233 V10.0.0: Sections 2, 10	1	3GPP TS 26.233 V10.0.0: Sections 2, 10	1	3GPP TS 26.233 V15.0.0: Sections 2, 10
		IN328562	1	3GPP TS 26.233 V10.0.0: Sections 2, 10	1	3GPP TS 26.233 V10.0.0: Sections 2, 10	1	3GPP TS 26.233 V15.0.0: Sections 2, 10
		US7970710	15	3GPP TS 26.233 V10.0.0: Sections 2, 10	15	3GPP TS 26.233 V10.0.0: Sections 2, 10	15	3GPP TS 26.233 V15.0.0: Sections 2, 10
SIE016	Siemens	US8699394	1, 14, 16	3GPP TS 23.002 V6.10.0: Sections 1, 3, 3.2, 4.4.1, 4.2, 4.2.2., 4.2.2.1, 4.2.2.2, 4.3 3GPP TS 23.246 V6.12.0: Sections 4.1, 5.2, 5.3 3GPP TS 25.331 V6.14.0: Sections 1, 8.6.9, 8.6.9.6, 8.7.1.1, 8.7.2, 8.7.2.1, 8.7.2.3, 8.7.2.4, 8.7.4.1, 8.7.4.2, 10.2.16j; Figures 8.7.2.1, 8.7.4.1 3GPP TS 25.346 V6.11.0: Sections 5.1.5, 5.2.5	16	3GPP TS 36.300 V12.0.0: Sections 3.1, 3.2, 4, 4.6.1, 15, 15.1.1, 15.1.3, 15.3.5; Figures 15-1, 15.1.1-1, 15.1.3-1 3GPP TS 36.331 V12.0.0: Sections 1, 5.8.2.1, 5.8.2.2, 5.8.4.1, 5.8.4.2, 5.8.4.3, 6.2.1, 6.2.2; Figures 5.8.2.1-1, 5.8.4.1-1	16	3GPP TS 36.300 V15.2.0: Sections 3.1, 3.2, 4, 4.6.1, 15, 15.1.1, 15.1.3, 15.3.5; Figures 15-1, 15.1.1-1, 15.1.3-1 3GPP TS 36.331 V15.3.0: Sections 1, 5.8.2.1, 5.8.2.2, 5.8.4.1, 5.8.4.2, 5.8.4.3, 6.2.1, 6.2.2; Figures 5.8.2.1-1, 5.8.4.1-1
SIE017	Siemens	US8073973			1	3GPP TS 36.233 V14.0.0: Sections 4, 4.1, 4.2.2, 5.5, 5.5.1, 5.5.4; Table 5.5.1.1; Figure 4.2.2.1	1	3GPP TS 36.233 V15.0.0: Sections 4, 4.1, 4.2.2, 5.5, 5.5.1, 5.5.4; Table 5.5.1.1; Figure 4.2.2.1
SIE018	Siemens	US8619667			1	3GPP TS 36.300 V11.1.0: Section 5.2.4 3GPP TS 36.211 V9.0.0: Sections 5.2.3, 5.3.4, 5.5.2.1.2; Table 5.2.3-1 3GPP TS 36.213 V9.1.0: Section 8.1	1	3GPP TS 36.300 V15.3.0: Section 5.2.4 3GPP TS 36.211 V15.2.0: Sections 5.2.3, 5.3.4, 5.5.2.1.2; Table 5.2.3-1 3GPP TS 36.213 V15.3.0: Section 8.1
SKT002*	SK Telecom	KR100501031			1,8	3GPP TS 36.113 V8.14.0: Sections 6.2.2.1.1 3GPP TS 36.213 V8.8.0: Sections 5.1.1.1, 6.1 3GPP TS 36.321 V8.9.0: Sections 5.1.1, 5.1.2, 5.1.3, 5.1.4 3GPP TS 36.331 V8.14.0: Sections 5.2.1.1, 6.3.1, 6.3.2		
SKT003	SK Telecom	BRPI0706360.1			1	3GPP TS 36.211 V10.1.0: Sections 3.1, 6.11, 6.11.2.1, 6.11.2.2 and 6.12; Tables 6.11.2.1-1 3GPP TS 36.213 V10.1.0: Section 4.1 3GPP TS 36.101 V10.3.0: Sections 7.1; Annex C; Table C.2-1		
		CNZL200780006495.7			11	3GPP TS 36.211 V10.1.0: Sections 3.1, 6.11, 6.11.2.1, 6.11.2.2 and 6.12; Tables 6.11.2.1-1 3GPP TS 36.213 V10.1.0: Section 4.1 3GPP TS 36.101 V10.3.0: Sections 7.1; Annex C; Table C.2-1		
		EP2057811 (DE, ES, FR, GB, NL, SE, TR)			13	3GPP TS 36.211 V10.1.0: Sections 3.1, 6.11, 6.11.2.1, 6.11.2.2 and 6.12; Tables 6.11.2.1-1 3GPP TS 36.213 V10.1.0: Section 4.1 3GPP TS 36.101 V10.3.0: Sections 7.1; Annex C; Table C.2-1		
		IN263473			8	3GPP TS 36.101 V10.3.0: Sections 7.1, C.1, C.2; Table C.2-1 3GPP TS 36.211 V10.1.0: Section 3.1, 6.2.3, 6.11, 6.11.2.1, 6.11.2.2 3GPP TS 36.213 V10.1.0: Section 4.1		

SKT003	SK Telecom	KR100874485			1	3GPP TS 36.211 V10.1.0: Sections 3.1, 6.11, 6.11.2.1, 6.11.2.2 and 6.12; Tables 6.11.2.1-1 3GPP TS 36.213 V10.1.0: Section 4.1 3GPP TS 36.101 V10.3.0: Sections 7.1; Annex C; Table C.2-1		
		US8125976			13	3GPP TS 36.211 V10.1.0: Sections 3.1, 6.11, 6.11.2.1, 6.11.2.2 and 6.12; Tables 6.11.2.1-1 3GPP TS 36.213 V10.1.0: Section 4.1 3GPP TS 36.101 V10.3.0: Sections 7.1; Annex C; Table C.2-1		
SKT004	SK Telecom	CNZL201480052265.4			1	3GPP TS 36.300 V12.4.0: Sections 6.5, 7.6, and 11.2; Figure 6.5-1 3GPP TS 36.321 V12.4.0: Section 6.1.3.8; Figure 6.1.3.8-1 3GPP TS 36.133 V12.4.0: Sections 7.7.2 and 7.7.3	1	3GPP TS 36.300 V16.7.0: Section 6.5; Figure 6.5-1 3GPP TS 37.340 V16.8.0: Sections 4.1.1, 6.1 3GPP TS 38.213 V16.8.0: Section 4.3 3GPP TS 38.321 V16.7.0: Section 5.9, 6.1.3.10; Figure 6.1.3.10-1
		CNZL201910925953.1			1	3GPP TS 36.133 V12.4.0: Sections 7.7.2 and 7.7.3 3GPP TS 36.300 V12.4.0: Sections 6.5, 7.6 and 11.2; Figure 6.5-1 3GPP TS 36.321 V12.4.0: Section 6.1.3.8; Figure 6.1.3.8-1	1	3GPP TS 36.300 V16.7.0: Section 6.5; Figure 6.5-1 3GPP TS 37.340 V16.8.0: Sections 4.1.1, 6.1 3GPP TS 38.213 V16.8.0: Section 4.3 3GPP TS 38.321 V16.7.0: Section 5.9, 6.1.3.10; Figure 6.1.3.10-1
		KR102101517			1	3GPP TS 36.133 V12.4.0: Sections 7.7.2 and 7.7.3 3GPP TS 36.300 V12.4.0: Sections 6.5, 7.6 and 11.2; Figure 6.5-1 3GPP TS 36.321 V12.4.0: Section 6.1.3.8; Figure 6.1.3.8-1	1	3GPP TS 36.300 V16.7.0: Section 6.5; Figure 6.5-1 3GPP TS 37.340 V16.8.0: Sections 4.1.1, 6.1 3GPP TS 38.213 V16.8.0: Section 4.3 3GPP TS 38.321 V16.7.0: Section 5.9, 6.1.3.10; Figure 6.1.3.10-1
		KR102101577			1	3GPP TS 36.133 V12.4.0: Sections 7.7.2 and 7.7.3 3GPP TS 36.300 V12.4.0: Sections 6.5, 7.6 and 11.2; Figure 6.5-1 3GPP TS 36.321 V12.4.0: Section 6.1.3.8; Figure 6.1.3.8-1	1	3GPP TS 36.300 V16.7.0: Section 6.5; Figure 6.5-1 3GPP TS 37.340 V16.8.0: Sections 4.1.1, 6.1 3GPP TS 38.213 V16.8.0: Section 4.3 3GPP TS 38.321 V16.7.0: Section 5.9, 6.1.3.10; Figure 6.1.3.10-1
		KR102101578			1	3GPP TS 36.133 V12.4.0: Sections 7.7.2 and 7.7.3 3GPP TS 36.300 V12.4.0: Sections 6.5, 7.6 and 11.2; Figure 6.5-1 3GPP TS 36.321 V12.4.0: Section 6.1.3.8; Figure 6.1.3.8-1	1	3GPP TS 36.300 V16.7.0: Section 6.5; Figure 6.5-1 3GPP TS 37.340 V16.8.0: Sections 4.1.1, 6.1 3GPP TS 38.213 V16.8.0: Section 4.3 3GPP TS 38.321 V16.7.0: Section 5.9, 6.1.3.10; Figure 6.1.3.10-1
		US10028328			1, 9	3GPP TS 36.133 V12.4.0: Sections 7.7.2 and 7.7.3 3GPP TS 36.300 V12.4.0: Sections 6.5, 7.6 and 11.2; Figure 6.5-1 3GPP TS 36.321 V12.4.0: Section 6.1.3.8; Figure 6.1.3.8-1	1, 9	3GPP TS 36.300 V16.7.0: Section 6.5; Figure 6.5-1 3GPP TS 37.340 V16.8.0: Sections 4.1.1, 6.1 3GPP TS 38.213 V16.8.0: Section 4.3 3GPP TS 38.321 V16.7.0: Section 5.9, 6.1.3.10; Figure 6.1.3.10-1
		US10397975			1	3GPP TS 36.300 V12.4.0 Sections 6.5, 7.6, 11.2; Fig. 6.5-1 3GPP TS 36.321 V12.4.0 Sections 6.1.3.8, Fig. 6.1.3.8-1 3GPP TS 36.133 V12.4.0 Sections 7.7.2 and 7.7.3	1	3GPP TS 36.300 V16.7.0: Section 6.5; Figure 6.5-1 3GPP TS 37.340 V16.8.0: Sections 4.1.1, 6.1 3GPP TS 38.213 V16.8.0: Section 4.3 3GPP TS 38.321 V16.7.0: Section 5.9, 6.1.3.10; Figure 6.1.3.10-1
		US9439233			1, 9	3GPP TS 36.300 V12.4.0: Sections 6.5, 7.6 and 11.2; Figure 6.5-1 3GPP TS 36.321 V12.4.0: Section 6.1.3.8; Figure 6.1.3.8-1 3GPP TS 36.133 V12.4.0: Sections 7.7.2 and 7.7.3	1, 9	3GPP TS 36.300 V16.7.0: Section 6.5; Figure 6.5-1 3GPP TS 37.340 V16.8.0: Sections 4.1.1, 6.1 3GPP TS 38.213 V16.8.0: Section 4.3 3GPP TS 38.321 V16.7.0: Section 5.9, 6.1.3.10; Figure 6.1.3.10-1
SKT005	SK Telecom	KR102023671			1	3GPP TS 36.211 V12.9.0 Section 4, 3GPP TS 36.213 V12.8.0 Sections 7.1, 7.2, 7.2.2, Table 7.2.2-1A, Table 7.2.2-1C, 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5, 3GPP TS 36.331 V12.7.0 Sections 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b, 5.3.10.6 and 6.3.2		
		KR102058816			1	3GPP TS 36.211 V12.9.0 Section 4, 3GPP TS 36.213 V12.8.0 Sections 7.1, 7.2, 7.2.2, Table 7.2.2-1A, Table 7.2.2-1C, 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5, 3GPP TS 36.331 V12.7.0 Sections 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b, 5.3.10.6 and 6.3.2		
		KR102058817			1	3GPP TS 36.211 V12.9.0 Section 4, 3GPP TS 36.213 V12.8.0 Sections 7.1, 7.2, 7.2.2, Table 7.2.2-1A, Table 7.2.2-1C, 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5, 3GPP TS 36.331 V12.7.0 Sections 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b, 5.3.10.6 and 6.3.2		
		US10348385			1	3GPP TS 36.211 V12.9.0 Section 4, 3GPP TS 36.213 V12.8.0 Sections 7.1, 7.2, 7.2.2, Table 7.2.2-1A, Table 7.2.2-1C, 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5, 3GPP TS 36.331 V12.7.0 Sections 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b, 5.3.10.6 and 6.3.2		
		US9510332			1, 8	3GPP TS 36.211 V12.9.0 Section 4, 3GPP TS 36.213 V12.8.0 Sections 7.1, 7.2, 7.2.2, Table 7.2.2-1A, Table 7.2.2-1C, 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5, 3GPP TS 36.331 V12.7.0 Sections 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b, 5.3.10.6 and 6.3.2		

SKT005	SK Telecom	US9800313			1, 9	3GPP TS 36.211 V12.9.0: Section 4 3GPP TS36.213 V12.8.0: Sections 7.1, 7.2, 7.2.2, Table 7.2.2-1A, Table 7.2.2-1C 3GPP TS36.300 V12.7.0: Sections 5.3.1.1, 5.5 and 7.5 3GPP TS36.331 V12.7.0: Sections 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b, 5.3.10.6 and 6.3.2		
SKT006	SK Telecom	KR102120497			1	3GPP TS 36.213 V12.7.0 Sections 7.1, 7.3, 7.3.2.1, 7.3.2.2, 7.3.4, 10.1.1, 10.1.3A, Table 10.1.3A-1 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5 3GPP TS 36.331 V12.7.0 Sections 3.1, 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10 and 5.3.10.3b		
		KR102173193			1	3GPP TS 36.213 V12.7.0 Sections 7.1, 7.3, 7.3.2.1, 7.3.2.2, 7.3.4, 10.1.1, 10.1.3A, Table 10.1.3A-1 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5 3GPP TS 36.331 V12.7.0 Sections 3.1, 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10 and 5.3.10.3b		
		US10122514			19	3GPP TS 36.213 V12.7.0 Sections 7.1, 7.3, 7.3.2.1, 7.3.2.2, 7.3.4, 10.1.1, 10.1.3A, Table 10.1.3A-1 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5 3GPP TS 36.331 V12.7.0 Sections 3.1, 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10 and 5.3.10.3b		
		US10355845			1	3GPP TS 36.213 V12.7.0: Sections 7.1, 7.3, 7.3.2.1, 7.3.2.2, 10.1.1, 10.1.3A 3GPP TS 36.300 V12.7.0: Sections 5.3, 5.3.1.1, 5.5, 7.5 3GPP TS 36.331 V12.7.0: Sections 3.1, 5.3.5, 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10, 5.3.10.3b		
		US9853795			19	3GPP TS 36.213 V12.7.0 Sections 7.1, 7.3, 7.3.2.1, 7.3.2.2, 7.3.4, 10.1.1, 10.1.3A, Table 10.1.3A-1, 3GPP TS 36.300 V12.7.0 Sections 5.3.1.1, 5.5, 7.5, 3GPP TS 36.331 V12.7.0 Sections 3.1, 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10 and 5.3.10.3b		
SKT007	SK Telecom	CNZL201480054683.7			1	3GPP TS36.213 V12.7.0: Sections 8.0, 8.3, and 9.1.2 3GPP TS36.300 V12.7.0: Section 5.5 3GPP TS36.321 V12.7.0: Section 5.4.1 3GPP TS36.331 V12.7.0: Sections 5.3.5.3, 5.3.5.4, 5.3.10.3b, and 6.3.2		
		CNZL201910940520.3			1	3GPP TS 36.213 V12.7.0: Sections 8.0, 8.3, 9.1.2 3GPP TS 36.300 V12.7.0: Sections 5.5 3GPP TS 36.321 V12.7.0: Sections 5.4, 5.4.1 3GPP TS 36.331 V12.7.0: Sections 5.3.5, 5.3.5.3, 5.3.5.4, 5.3.10, 5.3.10.3b, 6.3.2		
		KR102118750			1	3GPP TS 36.213 V12.7.0: Sections 8.0, 8.3, 9.1.2 3GPP TS 36.300 V12.7.0: Sections 5.5 3GPP TS 36.321 V12.7.0: Sections 5.4, 5.4.1 3GPP TS 36.331 V12.7.0: Sections 5.3.5, 5.3.5.3, 5.3.5.4, 5.3.10, 5.3.10.3b, 6.3.2		
		KR102251123			1	3GPP TS 36.213 V12.7.0: Sections 8.0, 8.3, 9.1.2 3GPP TS 36.300 V12.7.0: Sections 5.5 3GPP TS 36.321 V12.7.0: Sections 5.4, 5.4.1 3GPP TS 36.331 V12.7.0: Sections 5.3.5, 5.3.5.3, 5.3.5.4, 5.3.10, 5.3.10.3b, 6.3.2		
		KR102314101			1	3GPP TS 36.213 V12.7.0: Sections 8.0, 8.3, 9.1.2 3GPP TS 36.300 V12.7.0: Sections 5.5 3GPP TS 36.321 V12.7.0: Sections 5.4, 5.4.1 3GPP TS 36.331 V12.7.0: Sections 5.3.5, 5.3.5.3, 5.3.5.4, 5.3.10, 5.3.10.3b, 6.3.2		
		US10389492			1	3GPP TS 36.213 V12.7.0: Sections 8.0, 8.3, 9.1.2 3GPP TS 36.300 V12.7.0: Sections 5.5 3GPP TS 36.321 V12.7.0: Sections 5.4, 5.4.1 3GPP TS 36.331 V12.7.0: Sections 5.3.5, 5.3.5.3, 5.3.5.4, 5.3.10, 5.3.10.3b, 6.3.2		
		US10615926			1	3GPP TS 36.213 V12.7.0 Sections 8.0, 8.3, 9.1.2, 3GPP TS 36.300 V12.7.0 Section 5.5, 3GPP TS 36.321 V12.7.0 Section 5.4.1, 3GPP TS 36.331 V12.7.0 Sections 5.3.5.3, 5.3.5.4, 5.3.10.3b and 6.3.2.		
		US9768918			1	3GPP TS 36.213 V12.7.0 Sections 8.0, 8.3 3GPP TS 36.300 V12.7.0 Section 5.5 3GPP TS 36.321 V12.7.0 Section 5.4.1 3GPP TS 36.331 V12.7.0 Sections 5.3.5.3, 5.3.5.4, 5.3.10.3b and 6.3.2		

SKT008	SK Telecom	CNZL201580070137.7			1	3GPP TS 36.211 V12.8.0 Sections 9.1, 9.1.2, 9.2, 9.2.4, 9.3.1, 9.3.6, 9.7, 9.7.1, 9.7.2, 9.8, Table 9.8-1 3GPP TS 36.213 V12.8.0 Sections 14.1.1, 14.1.3, 14.3.1, 14.3.2, 14.4 3GPP TS 36.331 V12.7.0 Sections 5.10.7.1 and Figure 5.10.7.1-2		
		EP3216139 (DE, ES, FR, GB, IT)			1	3GPP TS 36.211 V12.8.0 Sections 9.1, 9.2, 9.2.4, 9.3.6, 9.8, Table 9.8-1, 3GPP TS 36.213 V12.8.0 Sections 14.1.1, 14.1.3		
		EP3614785 (DE, ES, FR, GB, IT, NL)			1	3GPP TS 36.211 V12.8.0 Sections 9.1, 9.1.2, 9.2, 9.2.4, 9.3.1, 9.3.6, 9.7, 9.7.1, 9.7.2, 9.8, Table 9.8-1 3GPP TS 36.213 V12.8.0 Sections 14.1.1, 14.1.3, 14.3.1, 14.3.2, 14.4 3GPP TS 36.331 V12.7.0 Sections 5.10.7.1 and Figure 5.10.7.1-2		
		EP3793321 (DE, ES, FR, GB, IT, NL)			1	3GPP TS 36.211 V12.8.0 Sections 9.1, 9.1.2, 9.2, 9.2.4, 9.3.1, 9.3.6, 9.7, 9.7.1, 9.7.2, 9.8, Table 9.8-1 3GPP TS 36.213 V12.8.0 Sections 14.1.1, 14.1.3, 14.3.1, 14.3.2, 14.4 3GPP TS 36.331 V12.7.0 Sections 5.10.7.1 and Figure 5.10.7.1-2		
		KR102078424			1	3GPP TS 36.211 V12.8.0 Sections 9.1, 9.1.2, 9.2, 9.2.4, 9.3.1, 9.3.6, 9.7, 9.7.1, 9.7.2, 9.8, Table 9.8-1 3GPP TS 36.213 V12.8.0 Sections 14.1.1, 14.1.3, 14.3.1, 14.3.2, 14.4 3GPP TS 36.331 V12.7.0 Sections 5.10.7.1 and Figure 5.10.7.1-2		
		KR102238523			1	3GPP TS 36.211 V12.8.0 Sections 9.1, 9.1.2, 9.2, 9.2.4, 9.3.1, 9.3.6, 9.7, 9.7.1, 9.7.2, 9.8, Table 9.8-1 3GPP TS 36.213 V12.8.0 Sections 14.1.1, 14.1.3, 14.3.1, 14.3.2, 14.4 3GPP TS 36.331 V12.7.0 Sections 5.10.7.1 and Figure 5.10.7.1-2		
		KR102255690			1	3GPP TS 36.211 V12.8.0 Sections 9.1, 9.1.2, 9.2, 9.2.4, 9.3.1, 9.3.6, 9.7, 9.7.1, 9.7.2, 9.8, Table 9.8-1 3GPP TS 36.213 V12.8.0 Sections 14.1.1, 14.1.3, 14.3.1, 14.3.2, 14.4 3GPP TS 36.331 V12.7.0 Sections 5.10.7.1 and Figure 5.10.7.1-2		
		US10334644			1	3GPP TS 36.211 V12.8.0 Sections 9.1, 9.1.2, 9.2, 9.2.4, 9.3.1, 9.3.6, 9.7, 9.7.1, 9.7.2, 9.8, Table 9.8-1 3GPP TS 36.213 V12.8.0 Sections 14.1.1, 14.1.3, 14.3.1, 14.3.2, 14.4 3GPP TS 36.331 V12.7.0 Sections 5.10.7.1 and Figure 5.10.7.1-2		
		US10652941			1	3GPP TS 36.211 V12.8.0: Sections 9.1, 9.1.2, 9.2, 9.2.4, 9.3.1, 9.3.6, 9.5, 9.7, 9.7.1, 9.7.2 and 9.8; Table 9.8-1 3GPP TS 36.213 V12.8.0: Sections 14.1.3, 14.3.1, 14.3.2, 14.4 3GPP TS 36.331 V12.7.0: Sections 5.10.7.1; Figure 5.10.7.1-2		
		US10986681			1	3GPP TS 36.211 V12.8.0: Sections 9, 9.1, 9.1.2, 9.2, 9.2.4, 9.3, 9.3.1, 9.3.6, 9.7, 9.7.1, 9.7.2, 9.8 3GPP TS 36.213 V12.8.0: Sections 14, 14.1, 14.1.3, 14.3, 14.3.1 3GPP TS 36.331 V12.7.0: Sections 5.10.7.1, 5.10.7.1-2		
SKT009	SK Telecom	US10128986			1	3GPP TS 36.213 V12.7.0: Sections 7, 7.1, 7.1.8, 7.3.4, 10.2; Table 7-2 3GPP TS 36.300 V12.7.0: Sections 5.3.1.1, 5.5, 7.5 3GPP TS 36.331 V12.7.0: Sections 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b		
		US10637614			1	3GPP TS 36.213 V12.7.0: Sections 7, 7.1, 7.3, 10.2; Table 7-2 3GPP TS 36.300 V12.7.0: Section 7.5 3GPP TS 36.331 V12.7.0: Sections 5.3.1.1, 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b		
		US11038627			1	3GPP TS 36.213 V12.7.0: Sections 7, 7.1, 7.1.8, 7.3.4, 10.2; Table 7-2 3GPP TS 36.300 V12.7.0: Sections 5.3.1.1, 5.5, 7.5 3GPP TS 36.331 V12.7.0: Sections 5.3.5.1, 5.3.5.3, 5.3.5.4, 5.3.10.3b		
SKT011	SK Telecom	CNZL201680079838.1			1	3GPP TS 23.214 V14.2.0: Sections 4.2, 4.2.1, 5.9, 5.9.1, 5.9.3, 5.9.3.1, 5.9.3.2, 6.2.3, 6.3, 6.3.1, 6.3.1.5; Figures 4.2.1-1, 6.2.3-1	1	3GPP TS 23.501 V17.2.0: Sections 4.1, 4.2.1, 4.2.6, 5.3.3.2.4, 5.8.2.11.15, 5.8.3.1, 5.8.3.2; Table 5.8.2.11.15-1 3GPP TS 23.502 V17.2.1: Section 4.2.3.3
		EP3410774 (DE, ES, FR, GB, IT, NL)			1	3GPP TS 23.214 V14.2.0: Sections 4.2, 4.2.1, 5.9, 5.9.1, 5.9.3, 5.9.3.1, 5.9.3.2, 6.2.3, 6.3, 6.3.1, 6.3.1.5; Figures 4.2.1-1, 6.2.3-1	1	3GPP TS 23.501 V17.2.0: Sections 4.1, 4.2.1, 4.2.6, 5.3.3.2.4, 5.8.2.11.15, 5.8.3.1, 5.8.3.2; Table 5.8.2.11.15-1 3GPP TS 23.502 V17.2.1: Section 4.2.3.3
		JP6638091			1	3GPP TS 23.214 V14.2.0: Sections 4.2, 4.2.1, 5.9, 5.9.1, 5.9.3, 5.9.3.1, 5.9.3.2, 6.2.3, 6.3, 6.3.1, 6.3.1.5; Figures 4.2.1-1, 6.2.3-1	1	3GPP TS 23.501 V17.2.0: Sections 4.1, 4.2.1, 4.2.6, 5.3.3.2.4, 5.8.2.11.15, 5.8.3.1, 5.8.3.2; Table 5.8.2.11.15-1 3GPP TS 23.502 V17.2.1: Section 4.2.3.3
		JP6876116			1	3GPP TS 23.214 V14.2.0: Sections 4.2, 4.2.1, 5.9, 5.9.1, 5.9.3, 5.9.3.1, 5.9.3.2, 6.2.3, 6.3, 6.3.1, 6.3.1.5; Figures 4.2.1-1, 6.2.3-1	1	3GPP TS 23.501 V17.2.0: Sections 4.1, 4.2.1, 4.2.6, 5.3.3.2.4, 5.8.2.11.15, 5.8.3.1, 5.8.3.2; Table 5.8.2.11.15-1 3GPP TS 23.502 V17.2.1: Section 4.2.3.3
		KR101893917			1	3GPP TS 23.214 V14.2.0: Sections 4.2, 4.2.1, 5.9, 5.9.1, 5.9.3, 5.9.3.1, 5.9.3.2, 6.2.3, 6.3, 6.3.1, 6.3.1.5; Figures 4.2.1-1, 6.2.3-1	1	3GPP TS 23.501 V17.2.0: Sections 4.1, 4.2.1, 4.2.6, 5.3.3.2.4, 5.8.2.11.15, 5.8.3.1, 5.8.3.2; Table 5.8.2.11.15-1 3GPP TS 23.502 V17.2.1: Section 4.2.3.3

SKT011	SK Telecom	KR101932574			1	3GPP TS 23.214 V14.2.0: Sections 4.2, 4.2.1, 5.9, 5.9.1, 5.9.3, 5.9.3.1, 5.9.3.2 6.2.3, 6.3, 6.3.1, 6.3.1.5; Figures 4.2.1-1, 6.2.3-1	1	3GPP TS 23.501 V17.2.0: Sections 4.1, 4.2.1, 4.2.6, 5.3.3.2.4, 5.8.2.11.15, 5.8.3.1, 5.8.3.2; Table 5.8.2.11.15-1 3GPP TS 23.502 V17.2.1: Section 4.2.3.3
		US10659397			1	3GPP TS 23.214 V14.2.0: Sections 4.2, 4.2.1, 5.9, 5.9.1, 5.9.3, 5.9.3.1, 5.9.3.2 6.2.3, 6.3, 6.3.1, 6.3.1.5; Figures 4.2.1-1, 6.2.3-1	1	3GPP TS 23.501 V17.2.0: Sections 4.1, 4.2.1, 4.2.6, 5.3.3.2.4, 5.8.2.11.15, 5.8.3.1, 5.8.3.2; Table 5.8.2.11.15-1 3GPP TS 23.502 V17.2.1: Section 4.2.3.3
SKT012	SK Telecom	CNZL201680066884.8			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		CNZL201680067157.3			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		EP3364695 (DE, ES, FI, FR, GB, IT, NL, TR)			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		EP3379867 (DE, ES, FR, GB, IT, NL, TR)			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		IN418542			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		JP7128234			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		KR101795786			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		KR101795787			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		US10609636			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		US11178600			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		US11265809			1	3GPP TS 23.401 V14.3.0: Sections 4.3.25.1a, 5.3.2.1; Figure 5.3.2.1-1 3GPP TS 24.301 V14.3.0: Sections 5.3.1.1, 5.5.1.2.4		
		CNZL201780049384.8			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		EP3498023 (ES, FR, GB, IT, NL)			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		RU2711952			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		RU2722424			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		RU2735387			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		US10645527			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		US10721588			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		US11044576			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		ZA201901397			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		

SKT013	SK Telecom	ZA202203814			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
		ZA202203815			1	3GPP TS 36.212 V14.7.0: Section 5.3.3.1.9A 3GPP TS 36.213 V14.3.0: Sections 14.1.5, 14.2, 14.2.1 3GPP TS 36.321 V14.8.0: Sections 3.1, 5.14.1.1 3GPP TS 36.331 V14.8.0: Section 6.3.2		
SKT015	SK Telecom	CNZL201780077099.7					1	3GPP TS 38.300 v15.5.0: Sections 9.2.1.2, 9.2.2.1, 9.2.2.2 3GPP TS 38.304 v15.5.0: Section 5.2.4.2
		JP6898994					1	3GPP TS 38.300 v15.5.0: Sections 9.2.1.2, 9.2.2.1, 9.2.2.2 3GPP TS 38.304 v15.5.0: Section 5.2.4.2
		JP7261834					1	3GPP TS 38.300 v15.5.0: Sections 9.2.1.2, 9.2.2.1, 9.2.2.2 3GPP TS 38.304 v15.5.0: Section 5.2.4.2
		KR101859564					1	3GPP TS 38.300 v15.5.0: Sections 9.2.1.2, 9.2.2.1, 9.2.2.2 3GPP TS 38.304 v15.5.0: Section 5.2.4.2
		US10912006					1	3GPP TS 38.300 v15.5.0: Sections 9.2.1.2, 9.2.2.1, 9.2.2.2 3GPP TS 38.304 v15.5.0: Section 5.2.4.2
		US11419032					1	3GPP TS 38.300 v15.5.0: Sections 9.2.1.2, 9.2.2.1, 9.2.2.2 3GPP TS 38.304 v15.5.0: Section 5.2.4.2
SKT017	SK Telecom	CNZL201780030831.5					1	3GPP TS 23.501 V15.3.0: Sections 5.1.5.1, 5.7.1.1, 5.7.5.1, 5.7.5.2, 5.7.5.3 3GPP TS 23.502 V15.9.0: Sections 4.3.2.2.2; Figure 4.3.2.2.2-1, 4.3.3.1, 4.3.3.3 3GPP TS 38.300 V15.5.0: Section 12.1
		EP3445082 (DE, ES, FR, GB, IT, NL, TR)					1	3GPP TS 23.501 V15.3.0: Sections 5.1.5.1, 5.7.1.1, 5.7.5.1, 5.7.5.2, 5.7.5.3 3GPP TS 23.502 V15.9.0: Sections 4.3.2.2.2; Figure 4.3.2.2.2-1, 4.3.3.1, 4.3.3.3 3GPP TS 38.300 V15.5.0: Section 12.1
		JP6674051					1	3GPP TS 23.501 V15.3.0: Sections 5.1.5.1, 5.7.1.1, 5.7.5.1, 5.7.5.2, 5.7.5.3 3GPP TS 23.502 V15.9.0: Sections 4.3.2.2.2; Figure 4.3.2.2.2-1, 4.3.3.1, 4.3.3.3 3GPP TS 38.300 V15.5.0: Section 12.1
		JP6952816					1	3GPP TS 23.501 V15.3.0: Sections 5.1.5.1, 5.7.1.1, 5.7.5.1, 5.7.5.2, 5.7.5.3 3GPP TS 23.502 V15.9.0: Sections 4.3.2.2.2; Figure 4.3.2.2.2-1, 4.3.3.1, 4.3.3.3 3GPP TS 38.300 V15.5.0: Section 12.1
		KR102115213					1	3GPP TS 23.501 V15.3.0: Sections 5.1.5.1, 5.7.1.1, 5.7.5.1, 5.7.5.2, 5.7.5.3 3GPP TS 23.502 V15.9.0: Sections 4.3.2.2.2; Figure 4.3.2.2.2-1, 4.3.3.1, 4.3.3.3 3GPP TS 38.300 V15.5.0: Section 12.1
		KR102115218					1	3GPP TS 23.501 V15.3.0: Sections 5.1.5.1, 5.7.1.1, 5.7.5.1, 5.7.5.2, 5.7.5.3 3GPP TS 23.502 V15.9.0: Sections 4.3.2.2.2; Figure 4.3.2.2.2-1, 4.3.3.1, 4.3.3.3 3GPP TS 38.300 V15.5.0: Section 12.1
		US10945159					8	3GPP TS 23.501 V15.3.0: Sections 5.1.5.1, 5.7.1.1, 5.7.5.1, 5.7.5.2, 5.7.5.3 3GPP TS 23.502 V15.9.0: Sections 4.3.2.2.2; Figure 4.3.2.2.2-1, 4.3.3.1, 4.3.3.3 3GPP TS 38.300 V15.5.0: Section 12.1
		US11627494					1	3GPP TS 23.501 V15.3.0: Sections 5.1.5.1, 5.7.1.1, 5.7.5.1, 5.7.5.2, 5.7.5.3 3GPP TS 23.502 V15.9.0: Sections 4.3.2.2.2; Figure 4.3.2.2.2-1, 4.3.3.1, 4.3.3.3 3GPP TS 38.300 V15.5.0: Section 12.1
SNY001*	Sisvel International	US7171230			1	3GPP TS 36.213 V8.7.0: Sections 5, 5.1, 5.1.1, 5.1.1.1, 6.1 3GPP TS 36.331 V8.5.0: Sections 5.5.3.2, 6.3.2		
SNY002	Sisvel International	KR101392025			1	3GPP TS 36.300 V12.4.0: Sections 5.1, 5.1.1, 5.1.4, 5.1.5, 5.1.8 3GPP TS 36.211 V8.5.0: Sections 3.1, 6.10, 6.10.1, 6.10.1.1, 6.10.1.2, 7.2; Figure 6.10.1.2-1		
		US8811466			7	3GPP TS 36.300 V12.4.0: Sections 5.1, 5.1.1, 5.1.4, 5.1.5, 5.1.8 3GPP TS 36.211 V8.5.0: Sections 3.1, 6.10, 6.10.1, 6.10.1.1, 6.10.1.2, 7.2; Figure 6.10.1.2-1		
		US9432103			1	3GPP TS 36.300 V12.4.0: Sections 5.1, 5.1.1, 5.1.4, 5.1.5, 5.1.8 3GPP TS 36.211 V8.5.0: Sections 3.1, 6.10, 6.10.1, 6.10.1.1, 6.10.1.2, 7.2; Figure 6.10.1.2-1		
TCH001	Sisvel SPA	EP2315383 (AT, CH, CZ, DE, DK, ES, FI, FR, GB, HU, IE, IT, NL, PL, PT, RO, SE, TR)					1	3GPP TS 36.321 V16.1.0: Sections 1, 3.1 and 3.2 3GPP TS 38.322 V16.1.0: Sections 1, 3.2, 5.2.3.2.1, 5.2.3.2.3, 5.3.1, 5.3.3.3, 5.3.4, 6.1.3, 6.2.2.5, 6.1.3.10, 6.2.3.12, 7.1 and 7.3

TCH001	Sisvel SPA	JP4968858				1	3GPP TS 36.321 V16.1.0: Sections 1, 3.1 and 3.2 3GPP TS 38.322 V16.1.0: Sections 1, 3.2, 5.2.3.2.1, 5.2.3.2.3, 5.3.1, 5.3.3.3, 5.3.4, 6.1.3, 6.2.2.5, 6.1.3.10, 6.2.3.12, 7.1 and 7.3
		KR100912784				1	3GPP TS 36.321 V16.1.0: Sections 1, 3.1 and 3.2 3GPP TS 38.322 V16.1.0: Sections 1, 3.2, 5.2.3.2.1, 5.2.3.2.3, 5.3.1, 5.3.3.3, 5.3.4, 6.1.3, 6.2.2.5, 6.1.3.10, 6.2.3.12, 7.1 and 7.3
		MX287630				1	3GPP TS 36.321 V16.1.0: Sections 1, 3.1 and 3.2 3GPP TS 38.322 V16.1.0: Sections 1, 3.2, 5.2.3.2.1, 5.2.3.2.3, 5.3.1, 5.3.3.3, 5.3.4, 6.1.3, 6.2.2.5, 6.1.3.10, 6.2.3.12, 7.1 and 7.3
		RU2392752				1	3GPP TS 36.321 V16.1.0: Sections 1, 3.1 and 3.2 3GPP TS 38.322 V16.1.0: Sections 1, 3.2, 5.2.3.2.1, 5.2.3.2.3, 5.3.1, 5.3.3.3, 5.3.4, 6.1.3, 6.2.2.5, 6.1.3.10, 6.2.3.12, 7.1 and 7.3
		US7869396				1	3GPP TS 36.321 V16.1.0: Sections 1, 3.1 and 3.2 3GPP TS 38.322 V16.1.0: Sections 1, 3.2, 5.2.3.2.1, 5.2.3.2.3, 5.3.1, 5.3.3.3, 5.3.4, 6.1.3, 6.2.2.5, 6.1.3.10, 6.2.3.12, 7.1 and 7.3
		US8165596				1	3GPP TS 36.321 V16.1.0: Sections 1, 3.1 and 3.2 3GPP TS 38.322 V16.1.0: Sections 1, 3.2, 5.2.3.2.1, 5.2.3.2.3, 5.3.1, 5.3.3.3, 5.3.4, 6.1.3, 6.2.2.5, 6.1.3.10, 6.2.3.12, 7.1 and 7.3
		US8369865			1		3GPP TS 36.322 V8.5.0: Sections 4.2.1, 4.2.1.3.1, 4.2.1.3.3, 5.1.3.1.1, 5.1.3.2.3, 5.2.1, 5.2.3, 6.1.2, 6.2.1.6, 6.2.2.14, 7.1, 7.3; Figure 6.2.1.6-1
TCH002	Sisvel SPA	CNZL201310036114.7				1	3GPP TS 38.213 V16.2.0: Sections 1, 3, 10.2; Table 10.2-2 3GPP TS 38.321 V16.1.0: Sections 3.1, 3.2, 5.3.1, 5.8.1
		JP5238067			1		3GPP TS 36.321 V8.5.0: Sections 5.4.1, 5.10.2; Table 7.1-2 3GPP TS 36.213 V8.6.0: Sections 8, 9.1.1, 9.2; Table 8-5, 9.2-1A 3GPP TS 36.212 V8.8.0: Sections 5.3.3, 5.3.3.1.1 3GPP TS 36.331 V8.4.0: Sections 6.2, 6.3.2
		JP5426001				1	3GPP TS 38.213 V16.2.0: Sections 1, 3, 10.2; Table 10.2-2 3GPP TS 38.321 V16.1.0: Sections 3.1, 3.2, 5.3.1, 5.8.1
		JP6002118			1		3GPP TS 36.321 V8.5.0: Sections 5.4.1, 5.10.2; Table 7.1-2 3GPP TS 36.213 V8.6.0: Sections 8, 9.1.1, 9.2; Table 8-5, 9.2-1A 3GPP TS 36.212 V8.8.0: Sections 5.3.3, 5.3.3.1.1 3GPP TS 36.331 V8.4.0: Sections 6.2, 6.3.2
		US8411633				1	3GPP TS 38.213 V16.2.0: Sections 1, 3, 10.2; Table 10.2-2 3GPP TS 38.321 V16.1.0: Sections 3.1, 3.2, 5.3.1, 5.8.1
		US8971279			1		3GPP TS 36.321 V8.5.0: Sections 5.4.1, 5.10.2; Table 7.1-2 3GPP TS 36.213 V8.6.0: Sections 8, 9.1.1, 9.2; Table 8-5, 9.2-1A 3GPP TS 36.212 V8.8.0: Sections 5.3.3, 5.3.3.1.1 3GPP TS 36.331 V8.4.0: Sections 6.2, 6.3.2
		US9369254			1		3GPP TS 36.321 V8.5.0: Sections 5.4.1, 5.10.2; Table 7.1-2 3GPP TS 36.213 V8.6.0: Sections 8, 9.1.1, 9.2; Table 8-5, 9.2-1A 3GPP TS 36.212 V8.8.0: Sections 5.3.3, 5.3.3.1.1 3GPP TS 36.331 V8.4.0: Sections 6.2, 6.3.2
TCH003	Sisvel SPA	EP2073588 (DE, GB, IT)				1	3GPP TS 38.300 V16.7.0: Sections 4, 4.4 and 4.4.1 3GPP TS 38.323 V16.5.0: Sections 4, 4.1, 4.2, 4.2.1, 4.2.2, 4.4 3GPP TS 38.322 V16.2.0: Sections 4, 4.1, 4.2, 4.2.1, 4.2.1.1.1, 4.2.1.1.2, 4.2.1.1.3, 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2, 4.2.1.2.3, 4.2.1.3, 4.2.1.3.1, 4.2.1.3.2, 4.2.1.3.3, 4.4
		US8260287	1		3GPP TS25.323 V8.5.0: Sections 4.2; Figure 1 3GPP TS25.322 V8.9.0: Sections 4.2.1, 6		
		US9072006				13	3GPP TS 38.300 V16.7.0: Sections 4, 4.4 and 4.4.1 3GPP TS 38.323 V16.5.0: Sections 4, 4.1, 4.2, 4.2.1, 4.2.2, 4.4 3GPP TS 38.322 V16.2.0: Sections 4, 4.1, 4.2, 4.2.1, 4.2.1.1.1, 4.2.1.1.2, 4.2.1.1.3, 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2, 4.2.1.2.3, 4.2.1.3, 4.2.1.3.1, 4.2.1.3.2, 4.2.1.3.3, 4.4
TEF001	Telefónica	EP2716111 (DE, ES, GB)			1		3GPP TS 36.214 V12.3.0: Section 5.1.1 3GPP TS 36.300 V12.7.0: Section 16.1.10 3GPP TS 36.304 V12.6.0: Sections 4.2, 5.2.3.2, 5.2.4.6; Table 4.2-1
		US9439115			1		3GPP TS 36.214 V12.3.0: Section 5.1.1 3GPP TS 36.300 V12.7.0: Section 16.1.10 3GPP TS 36.304 V12.6.0: Sections 4.2, 5.2.3.2, 5.2.4.6; Table 4.2-1
TEF002	Telefónica	EP2861033 (DE, ES, GB)			1		3GPP TS 24.301 V14.9.0: Sections 5.3.12, 9.9.3.46 3GPP TS 24.008 V14.7.0: Sections 2.1.2, 4.7.3.1.1, 4.7.3.1.3, 9.4.1, 9.4.2, 10.5.5.32; Figure 10.5.5.32; Tables 9.4.1, 9.4.2 3GPP TS 36.321 V11.6.0: Section 3.1; Figure 3.1-1
		US9313736			1		3GPP TS 24.301 V14.9.0: Sections 5.3.12, 9.9.3.46 3GPP TS 24.008 V14.7.0: Sections 2.1.2, 4.7.3.1.1, 4.7.3.1.3, 9.4.1, 9.4.2, 10.5.5.32; Figure 10.5.5.32; Tables 9.4.1, 9.4.2 3GPP TS 36.321 V11.6.0: Section 3.1; Figure 3.1-1
TIM001	TIM	CNZL201110028222.0	1, 10		3GPP TS 23.402 V9.3.0: Sections 1; 4.1.0; 4.3.3.3; 4.5.2; 6.3; 6.10; 12.3; Figure 6.10-1	1, 10	3GPP TS 23.402 V9.3.0: Sections 1; 4.1.0; 4.3.3.3; 4.5.2; 6.3; 6.10; 12.3; Figure 6.10-1

TIM001	TIM	EP2341723 (AT, BE, CH, CZ, DE, DK, ES, FR, GB, HU, IE, IT, NL, PL, PT, RO, SE, TR)			1, 3	3GPP TS 23.402 V9.3.0: Sections 1, 4.1.0, 4.3.3.3, 4.4.1, 6.3, 6.10, 12.3; Figure 6.10-1		
		US8593963			8	3GPP TS 23.402 V9.3.0: Sections 1, 4.1.3.2, 4.3.3.1, 4.3.3.3, 4.4.1, 4.5.2, 6.10, 12.3; Figure 6.10-1		
		US9357374	1, 9	3GPP TS 23.402 V9.3.0: Sections 1, 3.2, 4.1.0, 4.3.3.3, 4.4.1, 6.3, 6.10; Figures 6.10-1, 12.3 3GPP TS 33.402 V15.1.0: Section 9.2.2.2.1	1, 9	3GPP TS 23.402 V9.3.0: Sections 1, 3.2, 4.1.0, 4.3.3.3, 4.4.1, 6.3, 6.10; Figures 6.10-1, 12.3 3GPP TS 33.402 V15.1.0: Section 9.2.2.2.1		
TIM002	TIM	US7995988			1, 8, 14, 15	3GPP TS 36.305 V15.4.0: Sections 1, 4.1, 4.3, 5, 5.3.3, 5.3.4, 6.1.3, 6.1.4, 6.1.5, 6.2.1, 7.1.1, 7.1.2.1, 8.1.3.3.1, 8.6.3.1, 8.7.3.1.1, 8.8.3.1.1, 8.9.3.1.1; Figures 5-1, 8.9.3.1.1-1; Table 4.3-1	1, 8, 14, 15	3GPP TS 38.305 V15.5.0: Sections 1, 4.1, 4.3.1, 5.1, 5.4.4, 6.1.4, 6.1.5, 6.2.1, 7.1.1, 7.1.2.1, 8.1.3.3.1, 8.4.3.3.1, 8.5.3.3.1, 8.6.3.3.1, 8.7.3.3.1, 8.8.3.2; Figures 5.1-1, 8.1.3.3.1-1; Table 4.3.1-1
TIM003	TIM	US10567913			1	3GPP TS 23.303: Sections 1, 4.2, 5.3.3.2, 7A.1; Annex C.1, C.2; Table C.2-1; Figure 4.2-1, C.2-1 3GPP TS 22.278: Section 4.1		
UNI001	UNISOC	CNZL201710290717.8					10, 14, 16	3GPP TS 36.331 V15.6.0: Sections 3.1, 3.2, 5.6.3.1, 5.6.3.2, 5.6.3.3, 6.2.2 3GPP TS 38.331 V15.2.1: Sections 5.6.1.4, 6.3.3 3GPP TS 37.340 V15.6.0: Sections 3.2, 4.2.1, 10.2.1
UNI002	UNISOC	CNZL201611140968.X			1	3GPP TS 36.213 V15.3.0: Sections 6.1, 6.1.1 3GPP TS 36.331 V15.3.0: Section 6.2, 6.2.1, 6.3, 6.3.1		
		CNZL201911280547.0			1	3GPP TS 36.213 V15.3.0: Sections 6.1, 6.1.1 3GPP TS 36.331 V15.3.0: Section 6.2, 6.2.1, 6.3, 6.3.1		
UNI003	UNISOC	CNZL201510859850.1			1	3GPP TS 36.213 V15.8.0: Sections 7.2, 7.2.3 3GPP TS 36.331 V15.8.0: Section 6.3, 6.3.2 3GPP TS 36.300 V15.8.0: Section 5.2.3		
UNI004	UNISOC	CNZL201510868781.0					1	3GPP TS 38.214 V15.5.0: Sections 3.3, 5.1.2.1, 6.1.2.1 3GPP TS 38.213 V15.5.0: Section 10.1 3GPP TS 38.212 V15.4.0: Sections 7.3, 7.3.1.1, 7.3.1.1.1, 7.3.1.2, 7.3.1.2.1 3GPP TS 38.331 V15.5.0: Section 6.3.2
		CNZL201910722587.X					1	3GPP TS 38.214 V15.5.0: Sections 3.3, 5.1.2.1, 6.1.2.1 3GPP TS 38.213 V15.5.0: Section 10.1 3GPP TS 38.212 V15.4.0: Sections 7.3, 7.3.1.1, 7.3.1.1.1, 7.3.1.2, 7.3.1.2.1 3GPP TS 38.331 V15.5.0: Section 6.3.2
UNI005	UNISOC	CNZL201510573735.8					1	3GPP TS 37.355 V16.0.0: Sections 3.1, 3.2, 4.1.1, 5.1.1, 5.3.1, 6.3, 6.5.3.4, 6.5.9.4
UNI006	UNISOC	CNZL201910367603.8			1	3GPP TS 36.300 V17.2.0: Sections 23, 23.20, 23.20.2 3GPP TS 23.401 V17.4.0: Sections 4, 4.3, 4.3.33, 4.3.33.5		
WIL004	Wilus	IN420846			1	3GPP TS 36.212 V14.15.0: Sections 3.3, 5.2.2, 5.2.2.6, 5.3.3, 5.3.3.1, 5.3.3.1.1A; Table 5.3.3.1.1A-1 3GPP TS 36.211 V14.15.0: Sections 4.3, 5.2.1, 5.2.3; Table 5.2.3-1	1	3GPP TS 38.212 V16.6.0: Sections 7.3.1.1, 7.3.1.1.1 3GPP TS 38.214 V16.6.0: Sections 6.1.2, 6.1.2.1; Table 6.1.2.1-1
		KR102353817			1	3GPP TS 36.212 V14.15.0: Sections 3.3, 5.2.2, 5.2.2.6, 5.3.3, 5.3.3.1, 5.3.3.1.1A; Table 5.3.3.1.1A-1 3GPP TS 36.211 V14.15.0: Sections 4.3, 5.2.1, 5.2.3; Table 5.2.3-1	1	3GPP TS 38.212 V16.6.0: Sections 7.3.1.1, 7.3.1.1.1 3GPP TS 38.214 V16.6.0: Sections 6.1.2, 6.1.2.1; Table 6.1.2.1-1
		US11064364			1	3GPP TS 36.212 V14.15.0: Sections 3.3, 5.2.2, 5.2.2.6, 5.3.3, 5.3.3.1, 5.3.3.1.1A; Table 5.3.3.1.1A-1 3GPP TS 36.211 V14.15.0: Sections 4.3, 5.2.1, 5.2.3; Table 5.2.3-1	1	3GPP TS 38.212 V16.6.0: Sections 7.3.1.1, 7.3.1.1.1 3GPP TS 38.214 V16.6.0: Sections 6.1.2, 6.1.2.1; Table 6.1.2.1-1
		US11646922			1	3GPP TS 36.212 V14.15.0: Sections 3.3, 5.2.2, 5.2.2.6, 5.3.3, 5.3.3.1, 5.3.3.1.1A; Table 5.3.3.1.1A-1 3GPP TS 36.211 V14.15.0: Sections 4.3, 5.2.1, 5.2.3; Table 5.2.3-1	1	3GPP TS 38.212 V16.6.0: Sections 7.3.1.1, 7.3.1.1.1 3GPP TS 38.214 V16.6.0: Sections 6.1.2, 6.1.2.1; Table 6.1.2.1-1
WIL005	Wilus	CNZL201780018454.3			1	3GPP TS 36.212 V14.10.0: Sections 3.3, 5.3.5.3.3.5.3.3.1.4 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 13A, 15.1, 15.2, 15.2.1, 15.2.1.1, 15.2.1.2; Tables 13A-2	1	3GPP TS 37.213 V16.6.0: Sections 4.2, 4.2.1, 4.2.1.1, 4.2.1.0.0 3GPP TS 37.213 V16.2.0: Sections 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2
		EP3435725 (DE, GB, FR, ES, IT, NL, PL, FI, SE, TR)			1	3GPP TS 36.212 V14.10.0: Sections 3.3, 5.3.5.3.3.5.3.3.1.4 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 13A, 15.1, 15.2, 15.2.1, 15.2.1.1, 15.2.1.2; Tables 13A-2	1	3GPP TS 37.213 V16.6.0: Sections 4.2, 4.2.1, 4.2.1.1, 4.2.1.0.0 3GPP TS 37.213 V16.2.0: Sections 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2
		HK1261574			1	3GPP TS 36.212 V14.10.0: Sections 3.3, 5.3.5.3.3.5.3.3.1.4 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 13A, 15.1, 15.2, 15.2.1, 15.2.1.1, 15.2.1.2; Tables 13A-2	1	3GPP TS 37.213 V16.6.0: Sections 4.2, 4.2.1, 4.2.1.1, 4.2.1.0.0 3GPP TS 37.213 V16.2.0: Sections 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2
		KR102285189			1	3GPP TS 36.212 V14.10.0: Sections 3.3, 5.3.5.3.3.5.3.3.1.4 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 13A, 15.1, 15.2, 15.2.1, 15.2.1.1, 15.2.1.2; Tables 13A-2	1	3GPP TS 37.213 V16.6.0: Sections 4.2, 4.2.1, 4.2.1.1, 4.2.1.0.0 3GPP TS 37.213 V16.2.0: Sections 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2
		KR102413222			1	3GPP TS 36.212 V14.10.0: Sections 3.3, 5.3.5.3.3.5.3.3.1.4 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 13A, 15.1, 15.2, 15.2.1, 15.2.1.1, 15.2.1.2; Tables 13A-2	1	3GPP TS 37.213 V16.6.0: Sections 4.2, 4.2.1, 4.2.1.1, 4.2.1.0.0 3GPP TS 37.213 V16.2.0: Sections 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2
		KR102526853			1	3GPP TS 36.212 V14.10.0: Sections 3.3, 5.3.5.3.3.5.3.3.1.4 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 13A, 15.1, 15.2, 15.2.1, 15.2.1.1, 15.2.1.2; Tables 13A-2	1	3GPP TS 37.213 V16.6.0: Sections 4.2, 4.2.1, 4.2.1.1, 4.2.1.0.0 3GPP TS 37.213 V16.2.0: Sections 4.2.1.2, 4.2.1.2.1, 4.2.1.2.2

WIL008	Wilus	KR102536090			1	3GPP TS 36.212 V14.10.0: Sections 5.3, 5.3.3, 5.3.3.1.1A, 5.3.3.1.1B, 5.3.3.1.8A, 5.3.3.1.8B 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 15.2.1, 15.2.1.1, 15.2.1.2 3GPP TS 36.300 V14.10.0: Section 3.3	1	3GPP TS 36.212 V14.10.0: Sections 5.3, 5.3.3, 5.3.3.1.1A, 5.3.3.1.1B, 5.3.3.1.8A, 5.3.3.1.8B 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 15.2.1, 15.2.1.1, 15.2.1.2 3GPP TS 36.300 V14.10.0: Section 3.3
		US10728919			1, 2	3GPP TS 36.212 V14.10.0: Sections 5.3, 5.3.3, 5.3.3.1.1A, 5.3.3.1.1B, 5.3.3.1.8A, 5.3.3.1.8B 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 15.2.1, 15.2.1.1, 15.2.1.2 3GPP TS 36.300 V14.10.0: Section 3.3	1	3GPP TS 37.213 V16.6.0: Sections 4.2, 4.2.1, 4.2.1.0.1, 4.2.1.1, 4.2.1.2, 4.2.1.2.1
		US11297636			1	3GPP TS 36.212 V14.10.0: Sections 5.3, 5.3.3, 5.3.3.1.1A, 5.3.3.1.1B, 5.3.3.1.8A, 5.3.3.1.8B 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 15.2.1, 15.2.1.1, 15.2.1.2 3GPP TS 36.300 V14.10.0: Section 3.3	1	3GPP TS 36.212 V14.10.0: Sections 5.3, 5.3.3, 5.3.3.1.1A, 5.3.3.1.1B, 5.3.3.1.8A, 5.3.3.1.8B 3GPP TS 36.213 V14.11.0: Sections 1, 3.2, 15.2.1, 15.2.1.1, 15.2.1.2 3GPP TS 36.300 V14.10.0: Section 3.3
WIL009	Wilus	KR102278753			1	3GPP TS 37.213 V16.5.0: Sections 4.2.1, 4.2.1.0, 4.2.1.0.1, 4.2.1.1, 4.2.2, 4.2.2.1; Tables: 4.2.1-1 3GPP TS 36.212 V16.5.0: Sections: 5.3.3.1, 5.3.3.1.1A, 5.3.3.1.1B; Tables: 5.3.3.1.1A-1, 5.3.3.1.1A-2, 5.3.3.1.1A-3	1	3GPP TS 37.213 V16.5.0: Sections 4.2.1, 4.2.1.0, 4.2.1.0.1, 4.2.1.1, 4.2.2, 4.2.2.1; Tables: 4.2.1-1 3GPP TS 36.212 V16.5.0: Sections: 5.3.3.1, 5.3.3.1.1A, 5.3.3.1.1B; Tables: 5.3.3.1.1A-1, 5.3.3.1.1A-2, 5.3.3.1.1A-3
		US11096060			1	3GPP TS 37.213 V16.5.0: Sections 4.2.1, 4.2.1.0, 4.2.1.0.1, 4.2.1.1, 4.2.2, 4.2.2.1; Tables: 4.2.1-1 3GPP TS 36.212 V16.5.0: Sections: 5.3.3.1, 5.3.3.1.1A, 5.3.3.1.1B; Tables: 5.3.3.1.1A-1, 5.3.3.1.1A-2, 5.3.3.1.1A-3	1	3GPP TS 37.213 V16.6.0: Sections 4.2.1, 4.2.1.0.1, 4.2.1.1, 4.2.2.2; Table 4.2.1-1 3GPP TS 38.212 V16.6.0: Sections 7.3.1.1, 7.3.1.1.1, 7.3.1.1.2, 7.3.1.1.3 3GPP TS 38.214 V16.6.0: Section 6.1.2, 6.1.2.1; Table 6.1.2.1-1
		US11595824			1	3GPP TS 37.213 V16.5.0: Sections 4.2.1, 4.2.1.0, 4.2.1.0.1, 4.2.1.1, 4.2.2, 4.2.2.1; Tables: 4.2.1-1 3GPP TS 36.212 V16.5.0: Sections: 5.3.3.1, 5.3.3.1.1A, 5.3.3.1.1B; Tables: 5.3.3.1.1A-1, 5.3.3.1.1A-2, 5.3.3.1.1A-3	1	3GPP TS 37.213 V16.5.0: Sections 4.2.1, 4.2.1.0, 4.2.1.0.1, 4.2.1.1, 4.2.2, 4.2.2.1; Tables: 4.2.1-1 3GPP TS 36.212 V16.5.0: Sections: 5.3.3.1, 5.3.3.1.1A, 5.3.3.1.1B; Tables: 5.3.3.1.1A-1, 5.3.3.1.1A-2, 5.3.3.1.1A-3
WIL010	Wilus	KR102389027			1	3GPP TS 37.213 V15.3.0: Sections 4.2.1, 4.2.1.1, 4.2.1.2 3GPP TS 36.300 V15.12.0: Sections 5.7, 5.7.0, 11.1.2	1	3GPP TS 37.213 V15.3.0: Sections 4.2.1, 4.2.1.1, 4.2.1.2 3GPP TS 36.300 V15.12.0: Sections 5.7, 5.7.0, 11.1.2
		KR102520327			1	3GPP TS 37.213 V15.3.0: Sections 4.2.1, 4.2.1.1, 4.2.1.2 3GPP TS 36.300 V15.12.0: Sections 5.7, 5.7.0, 11.1.2	1	3GPP TS 37.213 V15.3.0: Sections 4.2.1, 4.2.1.1, 4.2.1.2 3GPP TS 36.300 V15.12.0: Sections 5.7, 5.7.0, 11.1.2
		US11044752			12	3GPP TS 37.213 V15.3.0: Sections 4.2.1, 4.2.1.1, 4.2.1.2 3GPP TS 36.300 V15.12.0: Sections 5.7, 5.7.0, 11.1.2	12	3GPP TS 37.213 V16.6.0: Sections 4.2, 4.2.1, 4.2.1.0.3, 4.2.1.1, 4.2.1.2, 4.2.1.2.1, 4.1.2.1.2.2 3GPP TS 38.214 V16.6.0: Section 6.6.1, 6.1.2.3
WIL011	Wilus	CNZL20188009423.6					1	3GPP TS 38.300 V15.12.0: Section 1, 3.1, 3.2, 4.1 3GPP TS 38.211 V15.8.0: Section 4.4.1, 7.1.1, 7.1.2, 7.4.1.1.2; Tables 7.4.1.1.2-3, 7.4.1.1.2-4 3GPP TS 38.331 V15.13.0: Section 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2; Figures 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
		US11012209					1	3GPP TS 38.300 V15.12.0: Section 1, 3.1, 3.2, 4.1 3GPP TS 38.211 V15.8.0: Section 4.4.1, 7.1.1, 7.1.2, 7.4.1.1.2; Tables 7.4.1.1.2-3, 7.4.1.1.2-4 3GPP TS 38.331 V15.13.0: Section 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2; Figures 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
WIL012	Wilus	CNZL201880029109.4					1	3GPP TS 38.211 V15.8.0: Section 7.4.1.5.3 3GPP TS 38.212 V15.8.0: Sections 7.3, 7.3.1, 7.3.1.2, 7.3.1.3, 7.3.1.3.1 3GPP TS 38.213 V15.8.0: Sections 10.1, 11, 11.1.1 3GPP TS 38.300 V15.9.0: Section 4.4.2 3GPP TS 38.331 V15.9.0: Section 6.3.2
		EP3605885 (DE, GB, FR, ES, IT, NL, PL, FI, SE, TR)					1	3GPP TS 38.211 V15.8.0: Section 7.4.1.5.3 3GPP TS 38.212 V15.8.0: Sections 7.3, 7.3.1, 7.3.1.2, 7.3.1.3, 7.3.1.3.1 3GPP TS 38.213 V15.8.0: Sections 10.1, 11, 11.1.1 3GPP TS 38.300 V15.9.0: Section 4.4.2 3GPP TS 38.331 V15.9.0: Section 6.3.2
		KR102241122					1	3GPP TS 38.211 V15.8.0: Section 7.4.1.5.3 3GPP TS 38.212 V15.8.0: Sections 7.3, 7.3.1, 7.3.1.2, 7.3.1.3, 7.3.1.3.1 3GPP TS 38.213 V15.8.0: Sections 10.1, 11, 11.1.1 3GPP TS 38.300 V15.9.0: Section 4.4.2 3GPP TS 38.331 V15.9.0: Section 6.3.2
WIL013	Wilus	CNZL201880040071.0					7	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1, 14 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.3.2; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v15.14.0: Sections 3.3, 10, 10.1, 11.1, 11.2 3GPP TS 38.331 v15.14.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1

WIL013	Wilus	JP6995392				7	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1, 14 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.3.2; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v15.14.0: Sections 3.3, 10, 10.1, 11.1, 11.2 3GPP TS 38.331 v15.14.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
		KR102469365				9	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1, 14 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.3.2; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v15.14.0: Sections 3.3, 10, 10.1, 11.1, 11.2 3GPP TS 38.331 v15.14.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
		US11381369				7	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1, 14 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.3.2; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v15.14.0: Sections 3.3, 10, 10.1, 11.1, 11.2 3GPP TS 38.331 v15.14.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
WIL015	Wilus	CNZL201880052102.4				1	3GPP TS 38.300 v16.7.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.211 v16.7.0: Sections 6.3.2.2, 6.3.2.2.2, 6.3.2.3.1, 6.3.2.5.3, 6.4.1.3.2.2 3GPP TS 38.213 v16.7.0: Section 3.3, 6, 9.2, 9.2.1, 9.2.2, 9.2.3, 9.2.4, 9.2.5.1; Tables 9.2.3-3, 9.2.3-4, 9.2.5-1, 9.2.5-2 3GPP TS 38.321 v16.6.0: Sections 3.2, 5.4.4, 5.17
		KR102356054				1	3GPP TS 38.300 v16.7.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.211 v16.7.0: Sections 6.3.2.2, 6.3.2.2.2, 6.3.2.3.1, 6.3.2.5.3, 6.4.1.3.2.2 3GPP TS 38.213 v16.7.0: Section 3.3, 6, 9.2, 9.2.1, 9.2.2, 9.2.3, 9.2.4, 9.2.5.1; Tables 9.2.3-3, 9.2.3-4, 9.2.5-1, 9.2.5-2 3GPP TS 38.321 v16.6.0: Sections 3.2, 5.4.4, 5.17
		KR102537798				1	3GPP TS 38.300 v16.7.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.211 v16.7.0: Sections 6.3.2.2, 6.3.2.2.2, 6.3.2.3.1, 6.3.2.5.3, 6.4.1.3.2.2 3GPP TS 38.213 v16.7.0: Section 3.3, 6, 9.2, 9.2.1, 9.2.2, 9.2.3, 9.2.4, 9.2.5.1; Tables 9.2.3-3, 9.2.3-4, 9.2.5-1, 9.2.5-2 3GPP TS 38.321 v16.6.0: Sections 3.2, 5.4.4, 5.17
		US11240081				1	3GPP TS 38.300 v16.7.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.211 v16.7.0: Sections 6.3.2.2, 6.3.2.2.2, 6.3.2.3.1, 6.3.2.5.3, 6.4.1.3.2.2 3GPP TS 38.213 v16.7.0: Section 3.3, 6, 9.2, 9.2.1, 9.2.2, 9.2.3, 9.2.4, 9.2.5.1; Tables 9.2.3-3, 9.2.3-4, 9.2.5-1, 9.2.5-2 3GPP TS 38.321 v16.6.0: Sections 3.2, 5.4.4, 5.17
WIL016	Wilus	CNZL201880064924.4				1	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.214 v15.13.0: Section 5.1.4.1 3GPP TS 38.331 v15.16.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2, B.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
		EP3681079 (DE, GB, FR, ES, IT, NL, PL, FI, SE, TR)				1	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.214 v15.13.0: Section 5.1.4.1 3GPP TS 38.331 v15.16.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2, B.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
		JP7142960				1	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.214 v15.13.0: Section 5.1.4.1 3GPP TS 38.331 v15.16.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2, B.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
		KR102481201				1	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.214 v15.13.0: Section 5.1.4.1 3GPP TS 38.331 v15.16.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2, B.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1

WIL016	Wilus	US11304181				1	3GPP TS 38.300 v15.13.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.212 v15.13.0: Sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.214 v15.13.0: Sections 5.1.4.1 3GPP TS 38.331 v15.16.0: Sections 5.2.1, 5.2.2.1, 5.3.3.1, 5.3.5.1, 5.3.13.1, 6.2.2, 6.3.2, B.2; Figures 5.2.2.1-1, 5.3.3.1-1, 5.3.5.1-1, 5.3.13.1-1
WIL017	Wilus	JP6980317				1	3GPP TS 38.300 v15.6.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.213 v15.6.0: Sections 3.3, 8, 8.1, 11.1; Tables 8.1-1, 8.1-2
		US11412507				1	3GPP TS 38.300 v15.6.0: Sections 1, 3.1, 3.2, 4.1 3GPP TS 38.213 v15.6.0: Sections 3.3, 8, 8.1, 11.1; Tables 8.1-1, 8.1-2
WIL018	Wilus	EP3740002 (DE, FR, GB, ES, FI, IT, NL, PL, SE, TR)				11	3GPP TS 38.211 V15.16.0: Section 4.4.5 3GPP TS 38.212 V15.13.0: Sections 4.2, 7.3.1, 7.3.1.1.1, 7.3.1.2.1 3GPP TS 38.214 V15.16.0: Sections 5.1.2.2, 5.1.2.2.2, 6.1.2.2, 6.1.2.2.2
WIL019	Wilus	EP3739795 (DE, GB, FR, ES, IT, NL, PL, FI, SE, TR)				1	3GPP TS 38.300 v16.10.0: sections 1, 3.1, 3.2, 4.1 3GPP TS 38.212 v16.10.0: sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v16.11.0: sections 3.3, 10.3, 11, 11.2A 3GPP TS 38.331 v16.10.0: sections 5.3.5.1, 5.3.5.5.1, 6.2.2, 6.3.2, B.2; Figure 5.3.5.1-1
		KR102484273				1	3GPP TS 38.300 v16.10.0: sections 1, 3.1, 3.2, 4.1 3GPP TS 38.212 v16.10.0: sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v16.11.0: sections 3.3, 10.3, 11, 11.2A 3GPP TS 38.331 v16.10.0: sections 5.3.5.1, 5.3.5.5.1, 6.2.2, 6.3.2, B.2; Figure 5.3.5.1-1
		US11523414				1	3GPP TS 38.300 v16.10.0: sections 1, 3.1, 3.2, 4.1 3GPP TS 38.212 v16.10.0: sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 v16.11.0: sections 3.3, 10.3, 11, 11.2A 3GPP TS 38.331 v16.10.0: sections 5.3.5.1, 5.3.5.5.1, 6.2.2, 6.3.2, B.2; Figure 5.3.5.1-1
WIL026	Wilus	JP7138379				1	3GPP TS 38.300 V16.9.0: Sections 1, 3.1, 3.2, 4.1, 4.2 3GPP TS 38.212 V16.10.0: Sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 V16.8.0: Section 9.1.3.1
		KR102484270				1	3GPP TS 38.300 V16.9.0: Sections 1, 3.1, 3.2, 4.1, 4.2 3GPP TS 38.212 V16.10.0: Sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 V16.8.0: Section 9.1.3.1
		US11290218				1	3GPP TS 38.300 V16.9.0: Sections 1, 3.1, 3.2, 4.1, 4.2 3GPP TS 38.212 V16.10.0: Sections 4.2, 7.3, 7.3.1; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 V16.8.0: Section 9.1.3.1
WIL027	Wilus	JP7214272				11	3GPP TS 38.300 V16.9.0: Sections 1, 3.1, 3.2, 4.1, 4.2, 5.2.3 3GPP TS 38.212 V16.9.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.2.2, 7.3.1.2.3; Tables 4.2-2, 7.3.1-1
		US11405903				11	3GPP TS 38.300 V16.9.0: Sections 1, 3.1, 3.2, 4.1, 4.2, 5.2.3 3GPP TS 38.212 V16.9.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.2.2, 7.3.1.2.3; Tables 4.2-2, 7.3.1-1
WIL032	Wilus	KR102492932				1	3GPP TS 38.300 V16.9.0: Sections 3.1, 3.2, 4.1, 4.2 3GPP TS 38.212 V16.9.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.1.2, 7.3.1.2.3; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 V16.9.0: Sections 9.1.3.1, 9.1.3.2; Table 9.1.3-2
		US11490406				1	3GPP TS 38.300 V16.9.0: Sections 3.1, 3.2, 4.1, 4.2 3GPP TS 38.212 V16.9.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.1.2, 7.3.1.2.3; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 V16.9.0: Sections 9.1.3.1, 9.1.3.2; Table 9.1.3-2
		US11653353				1	3GPP TS 38.300 V16.9.0: Sections 3.1, 3.2, 4.1, 4.2 3GPP TS 38.212 V16.9.0: Sections 4.2, 7.3, 7.3.1, 7.3.1.1.2, 7.3.1.2.3; Tables 4.2-2, 7.3.1-1 3GPP TS 38.213 V16.9.0: Sections 9.1.3.1, 9.1.3.2; Table 9.1.3-2
WIR002	Wireless Innovations	CNZL200480040372.1			7	3GPP TS 23.122 V10.0.0: Sections 1.2, 2, 3.1, 4.4.3.1.1, 4.4.3.3.1	
		EP1695584 (BE, DE, ES, FI, GR, GB, IT, SE)			6	3GPP TS 23.122 V10.0.0: Section 1.2, 2, 3.1, 4.4.3.1.1, 4.4.3.3, 4.4.3.3.1; Annex A	
		JP4990341			6	3GPP TS 23.122 V14.5.0: Sections 1.2, 2, 4.4.1, 4.4.3.1, 4.4.3.1.1, 4.4.3.3.1 3GPP TS 24.002 V14.0.0: Sections 3.0; Figure 2 3GPP TS 31.102 V14.8.0: Section 4.2.2 3GPP TS 36.304 V14.7.0: Sections 5.1, 5.1.2.1, 5.1.2.2	

WIR002	Wireless Innovations	US7366510			1, 6, 11, 16	3GPP TS 23.122 V10.0.0: Sections 1.2, 2.3.1, 4.3.3.1.1, 4.4.3.1.1, 4.4.3.3.1		
WIR003	Wireless Innovations	EP1683380 (BE, DE, ES, FI, FR, GB, IT, SE)			7	3GPP TS 23.122 V8.12.0: Sections 1.2, 2, 3.1, 4.4.1, 4.4.2, 4.4.3, 4.4.3.1, 4.4.3.1.1, 4.4.3.3.1		
		HK1093275			7	3GPP TS 23.122 V8.12.0: Sections 1.2, 2, 3.1, 4.4.1, 4.4.2, 4.4.3, 4.4.3.1, 4.4.3.1.1, 4.4.3.3.1		
		KR100763867			7	3GPP TS 23.122 V8.12.0: Sections 3.1, 4.4, 4.4.1, 4.4.2, 4.4.3, 4.4.3.1 and 4.4.3.1.1		
WIR007	Wireless Innovations	CNZL200880119450.5			9	3GPP TS 36.331 V9.18.0: Sections 5.8.1.1, 5.8.1.2 and 6.3.7 3GPP TS 36.321 V9.6.0: Sections 4.5.2 and 5.12; Table 4.5.2-1		
		EP2068492 (DE, ES, FI, FR, GB, IE, IT, NL, SE)			15	3GPP TS 36.331 V9.18.0: Sections 5.8.1.1, 6.3.7 3GPP TS 36.321 V9.6.0: Sections 4.5.2, 5.12; Table 4.5.2-1		
		JP5140160			15	3GPP TS 36.331 V9.18.0: Sections 5.8.1.1, 6.3.7 3GPP TS 36.321 V9.6.0: Sections 4.5.2, 5.12; Table 4.5.2-1		
		KR101420909			6	3GPP TS 36.331 V9.18.0: Sections 5.8.1.1, 6.3.7 3GPP TS 36.321 V9.6.0: Sections 5.12, 6.1.3.7 3GPP TS 36.300 V9.10.0: Section 5.1.6		
		US8755400			4	3GPP TS 36.211 v11.7.0: Section 6.5 3GPP TS 36.212 v11.7.0: Section 4.2; Table 4.2-1 3GPP TS 36.300 v11.14.0: Section 15.3.3 3GPP TS 36.321 v11.6.0: Sections 4.2.1, 5.12, 6.1.2, 6.1.3.7; Figure 6.1.3.7-1		
		US9001725			4	3GPP TS 36.211 v11.7.0: Section 6.5 3GPP TS 36.212 v11.7.0: Section 4.2; Table 4.2 3GPP TS 36.300 v11.14.0: Section 15.3.3 3GPP TS 36.321 v11.6.0: Sections 5.12, 6.1.2 and 6.1.3.7; Figure 6.1.3.7-1		
WIR008	Wireless Innovations	KR101658686			5	3GPP TS 36.321 V10.10.0: Sections 5.3.2.1, 5.3.2.2, 5.7, 5.13 3GPP TS 36.213 V10.13.0: Sections 7.1, 7.1.6.3, 9.1.1 3GPP TS 36.212 V10.9.0: Sections 5.3.3, 5.3.3.1.3 3GPP TS 36.300 V10.12.0: Section 7.5		
		KR101761824			9	3GPP TS 36.212 V10.9.0: section 5.3.3.1.3 3GPP TS 36.213 V10.13.0: sections 4.3, 7.1, 9.1.1 3GPP TS 36.321 V10.10.0: sections 5.3.1, 5.13, 6.1.3.8; Figure 6.1.3.8-1		
		KR101863520			9	3GPP TS 36.321 V10.10.0: Sections 5.3.1, 5.3.2.1, 5.13 3GPP TS 36.300 V10.12.0: Section 11.1 3GPP TS 36.213 V10.13.0: Sections 7.1, 9.1.1 3GPP TS 36.212 V10.9.0: Section 5.3.3.1.3		
		US10412724			11	3GPP TS 36.321 V10.10.0: Sections 5.7, 5.13 3GPP TS 36.331 V10.22.0: Sections 5.3.1.1, 5.3.3.1, 5.3.3.4, 5.3.5.1, 5.3.5.3, 5.13; Figures 5.3.3.1-1, 5.3.5.1-1		