

## SISVEL WI-FI LICENSING PROGRAM

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Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
FRA-01	US 6314289		6, 10	802.11n	3.1, 18.3.5.6, 18.3.8.2, 20.3, 20.3.1, 20.3.2, 20.3.3, 20.3.4, 20.3.11.4, 20.3.11.6, 20.3.11.8.2, 20.6
		DE (EP) 1123597			
		ES (EP) 1123597			
		FR (EP) 1123597			
		GB (EP) 1123597			
		IT (EP) 1123597			
		JP 3464981			
		PL 192020			
HER051	US 7697593		1	802.11n	20.1, 20.3.1, 20.3.2, 20.3.9.2, 20.3.9.3.3, 20.3.9.4.5, 20.3.24
		JP 4624423			
		TW I415406			
HER057	US 8116389		1,4	802.11n	20.1.4, 20.3.1, 20.3.2, 20.3.3, 20.3.9.2, 20.3.9.3.3, 20.3.9.3.4, 20.3.9.4.5, 20.3.9.4.6
		JP 4841256			
		US 8379744			
HER058	US 8737377		1	802.11n	20.3.2, 20.3.3, 20.3.9.1, 20.3.9.2, 20.3.9.3.3, 20.3.9.3.4, 20.3.9.4.5, 20.3.9.4.6 20.3.11.10.1
		JP 4781116			
		JP 5282119			
HER089	US 7526258		1	802.11n	20.3.2, 20.3.3, 20.3.9.4.2, 20.3.9.4.5, 20.3.9.4.6
		CN 200510007003.9			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		JP 4130191			
		JP 4130210			
		TW I253811			
HER090	EP 1768293		1,6,7,9	802.11n	20.1.4, 20.3.1, 20.3.2, 20.3.3, 20.3.9.2, 20.3.9.3.3, 20.3.9.3.4, 20.3.9.4.5, 20.3.9.4.6
		CN 103338100			
		CN 200580021534.1			
		DE (EP) 1768293			
		FI (EP) 1768293			
		FR (EP) 1768293			
		GB (EP) 1768293			
		KR 827148			
		SE (EP) 1768293			
		TW I293526			
		US 8054739			
		US 8446812			
HER091	EP 1768294		1	802.11n	
		CN 200580021825			
		DE (EP) 1768294			
		FI (EP) 1768294			
		FR (EP) 1768294			
		GB (EP) 1768294			
		ID ID-P0034246			
		IN 286785			
		JP 4583254			
		JP 4583330			
		KR 887006			
		RU 2383998			
		SE (EP) 1768294			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		TW I279999			
		US 8254361			
		US 8265055			
		US 8817767			
		VN 9822			
HER092	US 7715876		1	802.11n	20.1.4, 20.3.2, 20.3.3, 20.3.4, 20.3.7, 20.3.9.4.5, 20.3.9.4.6, 20.3.11.10.1
		CN 200580033853.4			
		CN 201210392562.6			
		DE (EP) 1811704			
		FI (EP) 1811704			
		FR (EP) 1811704			
		GB (EP) 1811704			
		KR 827190			
		KR 829340			
		SE (EP) 1811704			
		TW I368404			
		US 8121647			
		US 9331813			
HER093	US 7715877		1	802.11n	20.1.4, 20.3.2, 20.3.3, 20.3.4, 20.3.7, 20.3.9.4.5, 20.3.9.4.6, 20.3.11.10.1, 20.3.13.3
		CN 102983895			
		CN 200580030764.4			
		DE (EP) 1811705			
		FI (EP) 1811705			
		FR (EP) 1811705			
		GB (EP) 1811705			
		JP 4063848			
		JP 4063849			
		JP 4063850			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		JP 4065276			
		JP 4065296			
		JP 4065297			
		JP 4065311			
		JP 4463293			
		JP 5031813			
		KR 817670			
		KR 817671			
		KR 817672			
		KR 817673			
		KR 817674			
		KR 817675			
		SE (EP) 1811705			
		TW I368409			
		US 7715878			
		US 7715879			
		US 7715880			
		US 7738924			
		US 8265700			
		US 8611960			
HER094	EP 1927216		1	802.11n	9.13.3.1, 9.13.3.3, 20.3.2, 20.3.3, 20.3.3, 20.3.11.10.1, 7.3.2.56.1, 7.3.2.56.4
		CN 200680021937			
		DE (EP) 1927216			
		FI (EP) 1927216			
		FR (EP) 1927216			
		GB (EP) 1927216			
		JP 4841333			
		KR 1279187			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		SE (EP) 1927216			
		TW I397282			
		US 8351463			
HER095	US 7539461		1	802.11n	20.3.3, 20.3.11.10.1, 7.3.2.56.1, 7.3.2.56.4
	US 7962103 <sup>1</sup>		1	802.11ac	8.4.2.160.1, 8.4.2.160.3, 22.1.1, 22.3.3, 22.3.4.5, 22.3.4.6, 22.3.4.7, 22.3.4.8, 22.3.4.9.1, 22.3.4.9.2, 22.3.8.3.2, 22.3.10.9.4, 22.3.10.11.1
		CN 03811270.1			
		CN 101557252			
		DE (EP) 1489758			
		FI (EP) 1489758			
		FR (EP) 1489758			
		GB (EP) 1489758			
		JP 4166026			
		SE (EP) 1489758			
		US 8412115 <sup>1</sup>			
		US 8934851 <sup>1</sup>			
		US 9270024 <sup>1</sup>			
HER097	US 7613151		1	802.11n	
		CN 02819661.9			
		CN 200610165995.2			
		DE (EP) 2461494			
		FI (EP) 2461494			
		FR (EP) 2461494			
		GB (EP) 2461494			
		JP 3540782			
		SE (EP) 2461494			
		TW 589908			

<sup>1</sup> Subject to reissue

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage	
		US 7130659				
		US 7454234 <sup>1</sup>				
		US 7454235				
		US 7454236				
		US 7567821				
		US 7873387				
		US 7873388				
		US 7873389 <sup>1</sup>				
		US 7881751				
HER098	US 8295400 <sup>1</sup>		1	802.11n		20.3.2, 20.3.3, 20.3.9.2, 20.3.9.3.2, 20.3.9.3.3, 20.3.9.3.4, 20.3.9.3.5, 20.3.9.4.2, 20.3.9.4.3, 20.3.9.4.5, 20.3.9.4.6, 20.3.11.9, 17.3.1, 17.3.3, 17.3.5.8, 17.3.5.9
		CN 200580030234.X				
		CN 201210350744.7				
		DE (EP) 1788743				
		FR (EP) 1788743				
		GB (EP) 1788743				
		JP 3754441				
		KR 867852				
		TW I407712				
		TW I496429				
		US 8787496				
HER099	US 7899413		1	802.11n	20.1.4, 20.3.2, 20.3.3, 20.3.9.4.2, 20.3.9.4.5, 20.3.9.4.6, 20.3.11.10.1, 20.3.11.10.2	
		CN 200680003246.8				
		CN 201210544583.5				
		DE (EP) 1925104				
		GB (EP) 1925104				
		JP 3989512				

<sup>1</sup> Subject to reissue

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage	
		JP 4290210				
		JP 4290218				
		JP 4290220				
		JP 4884488				
		JP 5361972				
		KR 1124122				
		KR 937802				
		SE (EP) 1925104				
		TW I422176				
		TW I499233				
		US 8380141				
		US 8976732				
KPN-01	EP 0716797		8	802.11-2012		4.5.9, 8.4.2.94, 8.4.4, 8.4.4.11, 10.24.3.2.1
		AU 76146/94				
		BE (EP) 0716797				
		CH (EP) 0716797				
		DE (EP) 0716797				
		DK (EP) 0716797				
		ES (EP) 0716797				
		FI 960939				
		FR (EP) 0716797				
		GB (EP) 0716797				
		IE (EP) 0716797				
		IT (EP) 0716797				
		JP 3525258				
		NL (EP) 0716797				
		NO 315349				
		PT (EP) 0716797				

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		SE (EP) 0716797			
KPN-02	EP 831613		1	802.11-2012	3.1, 5.1.1.1, 5.1.5, 6.3, 8.2.1, 8.2.3, 8.2.4.8, 8.3.2, 8.3.2.2, 8.4.2.24.9, 8.6, 8.6.1, 8.6.2, 9.3.2.2, 11.4.3.2, 11.4.3.3.1, 11.4.3.3.6, 11.4.3.4.2
		BE (EP) 831613			
		CH (EP) 831613			
		DE (EP) 831613			
		ES (EP) 831613			
		FI (EP) 831613			
		FR (EP) 831613			
		GB (EP) 831613			
		IE (EP) 831613			
		IT (EP) 831613			
		NL (EP) 831613			
		SE (EP) 831613			
KPN-03	EP 0785692		1	802.11-2012	4.1, 4.3.1, 4.5.3.3, 8.4.2.81
		DE (EP) 0785692			
		ES (EP) 0785692			
		FR (EP) 0785692			
		GB (EP) 0785692			
		NL (EP) 0785692			
		NL (EP) 1001561			
KPN-04	EP 2076090		1	802.11-2012	4.5.9, 10.24.7
		CN 101466085			
		DE (EP) 2076090			
		DE (EP) 2357627			
		FI (EP) 2076090			
		FI (EP) 2357627			
		FR (EP) 2076090			
		FR (EP) 2357627			



Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		GB (EP) 2076090			
		GB (EP) 2357627			
		JP 5356004			
		NL (EP) 2076090			
		NL (EP) 2357627			
		SE (EP) 2076090			
		SE (EP) 2357627			
		US 9747784			
ORA-01	EP 2499865		1, 5	- 802.11ac - 802.11-2012	- 8.3.1.5, 9.17a, 10.2.1.19, 22.1.3.1, 22.1.3.2, 22.2.1, 22.2.2, 10.2.1.19 - 8.1, 8.3.1.5
		CN ZL 201080051448			
		DE (EP) 2499865			
		ES (EP) 2499865			
		FR (EP) 2499865			
		GB (EP) 2499865			
		IT (EP) 2499865			
		JP 5774017			
		RU 2560929			
ORA-02	EP 0616445		1, 9, 10	802.11n	20, 20.1, 20.1.1, 20.3, 20.3.2, 20.3.3, 20.3.4, 20.3.7, 20.3.11, 20.3.11.3, 20.3.21.7.4,
		DE (EP) 0616445			
		FR (EP) 0616445			
		FR 2702904			
		GB (EP) 0616445			
		IT (EP) 0616445			
ORA-03	EP 0820172		3, 4, 5	- 802.11a - 802.11n	- 17.3.5.8, 17.3.5.9 - 20.3.11.9
		AU 655959			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		CA 2059455			
		DE (EP) 0820172			
		ES (EP) 0820172			
		FR 2671923			
		GB (EP) 0820172			
		IT (EP) 0820172			
		JP 3044899			
		NL (EP) 0820172			
		SE (EP) 0820172			
		US 5307376			
ORA-04	EP 0448492		1	802.11n	20.1.1, 20.3.4, 20.3.9.4.3, 20.3.11, 20.3.11.3, 20.3.11.4, 20.3.21.7.3, 20.3.23
		DE (EP) 0448492			
		FR 2660131			
		GB (EP) 0448492			
		US 5197061			
ORA-05	EP 0441730		1, 14	- 802.11a - 802.11g	- 17.2.2, 17.3.3, 17.3.4, 17.3.5, 17.3.9 - 19.1.2, 19.1.3
		DE (EP) 0441730			
		FR 2658017			
		GB (EP) 0441730			
		US 5228025			
ORA-06	EP 1362447		1	802.11n-2009	3.237, 3.247, 3.249, 3A.28, 20.1.1 20.3.3, 20.3.4, 20.3.11.7.1, 20.3.11.7.2, 20.3.11.8.1
		AT (EP) 359632			
		CN 100495956			
		DE (EP) 1362447			
		DE (EP) 60219435			
		ES (EP) 1362447			
		ES (EP) 2284822			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		FR (EP) 1362447			
		FR (EP) 28212217			
		GB (EP) 1362447			
		IT (EP) 1362447			
		JP 4184798			
		KR 10087459			
		US 7170948			
ORA-07	EP 2538709		1	802.11-2012	
		CN 102792721			
		CN 106412890			
		DE (EP) 2499855			
		DE (EP) 2538709			
		ES (EP) 2538709			
		ES (EP) 2751366T3			
		FR (EP) 2499855			
		FR (EP) 2538709			
		GB (EP) 2499855			
		GB (EP) 2538709			
		IT (EP) 2538709			
		US 9071965			
ENA-01	US 9307557		6	802.11n	3A.61, 5.2.9, 9.9.1.7, 9.13.4, 11.14.2, 11.15.1, 20.1.1, 20.1.4, 20.3.1, 20.3.2, 20.3.9.3.5, Table 20-1
		CN ZL200780002334.0			
		JP 5096372			
		KR 100782844			
		MX 281770			
		NL (EP) 1972102			
		US 8023481			
		US 8611322			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
ENA-02	US 7688767		1	802.11n	7.3.1.24, 7.2.1.25, 7.3.2.27, 7.4.10.4, 9.16.1.2, 9.16.1.3, 9.16.1.5
		CN 101288250			
		CN ZL200680038377.X			
		DE (EP) 1777878			
		DE (EP) 1777879			
		DE (EP) 1873974			
		DE (EP) 1873975			
		ES (EP) 1777878			
		ES (EP) 1777879			
		ES (EP) 1873974			
		ES (EP) 1873975			
		FI (EP) 1777879			
		FR (EP) 1777878			
		FR (EP) 1777879			
		FR (EP) 1873974			
		FR (EP) 1873975			
		GB (EP) 1777878			
		GB (EP) 1777879			
		GB (EP) 1873974			
		GB (EP) 1873975			
		IT (EP) 1777878			
		IT (EP) 1777879			
		IT (EP) 1873974			
		IT (EP) 1873975			
		JP 4704471			
		JP 4704472			
		KR 100615139			
		KR 100615141			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage	
		KR 100678273				
		KR 100678274				
		KR 100689412				
		KR 101249079				
		NL (EP) 1777878				
		NL (EP) 1777879				
		NL (EP) 1873974				
		NL (EP) 1873975				
		SE (EP) 1777879				
		US 7656832				
		US 7660274				
		US 7688176				
		US 7688769				
		US 7688770				
		US 7688831				
		US 7701888				
		US 7701889				
		US 7706816				
ENA-03	US 7668130		1	802.11n		7.3.1.24, 7.2.1.25, 7.3.2.27, 7.4.10.4, 9.16.1.2, 9.16.1.3, 9.16.1.5
		CN ZL200680038332.2				
		DE (EP) 1777880				
		DE (EP) 1871041				
		ES (EP) 1777880				
		ES (EP) 1871041				
		FR (EP) 1777880				
		FR (EP) 1871041				
		GB (EP) 1777880				
		GB (EP) 1871041				

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		IT (EP) 1777880			
		IT (EP) 1871041			
		JP 4704470			
		KR 100615140			
		NL (EP) 1777880			
		NL (EP) 1871041			
		US 7668131			
		US 7672259			
		US 7688768			
		US 8068476			
ENA-04	US 7944874		1	- 802.11-2007 - 802.11n	- 7.2.1.5 - 9.9.1.7
		CN ZL200680050559.9			
		JP 5209497			
		KR 10-0728039			
		MX 281773			
		NL (EP) 1969771			
		NL (EP) 2595443			
ENA-05	US 7859987		23	- 802.11n - 802.11ac	- 20.3.3, 20.3.11.7.2, 20.3.11.7.3, 20.6, Table 20-28 - 22.3.3, 22.3.6, 22.3.10.6, 22.3.10.8, Table 22-6
		CN ZL200680047869.5			
		JP 5592346			
		KR 101358324			
		MX 281219			
AEG-01	KR 10-0622108		11	802.11b	16.2.5.1, 16.2.3.4, 16.2.3.5, 18.1.1
	US 8179893		35, 59	802.11n	6.1.3, 7.1.3.5, 7.1.3.5.8, 7.2.2.2, 7.4a.1, 7.4a.3
		DE (EP) 0991208			
		DE (EP) 1538763			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		DE (EP) 2017979			
		DE (EP) 2023510			
		ES (EP) 1538763			
		ES (EP) 2017979			
		FI (EP) 0991208			
		FI (EP) 2017979			
		FR (EP) 0991208			
		FR (EP) 1538763			
		FR (EP) 2017979			
		GB (EP) 0991208			
		GB (EP) 2017979			
		GB (EP) 2023510			
		IT (EP) 0991208			
		IT (EP) 1538763			
		IT (EP) 2017979			
		KR 10-0619598			
		KR 10-0640938			
		NL (EP) 0991208			
		NL (EP) 1538763			
		NL (EP) 2017979			
		SE (EP) 0991208			
		SE (EP) 1538763			
		SE (EP) 2017979			
		US 6791963			
		US 7545807			
		US 7792149			
		US 8204059			
		US 8401011			

Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		US 9019966			
AEG-03	KR 10-0559979		15	802.11e	7.3.1.14, 7.4.4.3, 7.31.16, 10.3.27.4.1, 10.3.27.4.2, 11.5.1.2, 11.5.3, Fig.68f, Table 2el
	US 7299062		1	802.11n	7.3.2.52.2, 7.3.1.28, 7.4.8.4, 9.15.1.1, 9.15.1.3
		AU 2004225409			
		BR PI0409071-3			
		CN ZL 200480001655.5			
		CN ZL200810178204.9			
		CN ZL200910225006.8			
		DE (EP) 1609330			
		FR (EP) 1609330			
		GB (EP) 1609330			
		HK 1082147			
		ID IDP0023530			
		IN 222234			
		JP 4195035			
		JP 4741040			
		KZ 19344			
		MX 252323			
		RU 2347327			
		UA 81467			
		US 7536193			
		US 8064941			
		US 8351966			
		ZA 20050003478			
AEG-04	US 7995613		34	802.11e	7.1.3.1.2, 7.1.3.5, 7.1.3.5.1, 7.1.3.5.3, 9.9.2.3.1
	KR 10-0606661		9	802.11e	7.1.3.5, 7.1.3.5.3, 7.1.3.5.6, 9.9.2.1, 9.9.2.2, 9.9.2.3.1
		US 7123628			7.1.3.1.2, 7.1.3.5, 7.1.3.5.1, 7.1.3.5.3, 9.9.2.3.1



Family Code	Exemplary Member	Family Members	Claims	Technical Standard	Illustrative Standard Coverage
		KR 10-0746069			7.1.3.5, 7.1.3.5.3, 7.1.3.5.6, 9.9.2.1, 9.9.2.2, 9.9.2.3.1
		US 8045583			
AEG-05	US 6738559		1	802.11h	7.3.2.17, 7.3.2.18, 7.4.1.3, 7.4.1.4, 11.5.4
		US RE41389			
		US RE41407			
		US RE42348			
		US RE42369			
AEG-06	US 6469993		25	802.11e	6.1.1.2, 7.1.3.5.1, 7.4.2.2, 7.3.2.28, 9.1.3.2, 9.9.2, 9.9.2.3, 9.9.3.2, 11.4.4
AEG-07	US 7308278		1	802.11e	6.1.1, 6.1.1.2, 6.1.3, 7.1.3.5, 7.1.3.4.1, 7.1.3.5.1, Table 22d
		CN ZL2003811329.5			
		CN ZL200910225016.1			
		DE (EP) 1506638			
		GB (EP) 1506638			
		IN 225958			
		KR 10-0860581			
		MX 252703			
		RU 2287224			
		US 7623887			
		US 7869758			
		US 8010039			
		US 8380232			
AEG-08	US 7616592		2	- 802.11e - 802.11-2007	- 7.1.3.5.6, 7.2.2, Table 3a - 5.7, 7.1.3.1, 7.1.3.1.4, 7.1.3.1.5
		KR 10-0290862			
		US 6614778			
		US 7907553			
		US 7907554			

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AEG-09	US 7653025		1	802.11e	7.3.2.28, 9.1.3.2, 9.9.3.2, 11.4, 11.4.1, 11.4.6
		CN ZL 02126162.8			
		KR 10-0841296			
		KR 10-0841325			
		KR 10-0841326			
		KR 10-0841328			
		US 7245595			
		US 8767635			
AEG-10	US 6408175		1, 14	- 802.11i - 802.11-2012	- 8.5.1.2, 8.5.3.1.4, 8.5.3.2.4, 8.5.3.3.4, 8.5.3.4, 10.3.17.1, 10.3.17.1.3, 10.3.17.1.4 - 4.10.3.2
		CN ZL 99125575.5			
		KR 10-0315641			
AEG-11	US 7392460		1	802.11n	20.2.2, 20.3.4
		AU 2004240053			
		CN ZL 200480013215.1			
		CN ZL200480033050.4			
		IN 329864			
		JP 4594937			
		KR 10-1000388			
		MX 263860			
		RU 2352073			
		US 7706347			
AEG-12	US 9350434		1	802.11ac	8.3.1.20, 9.31.5.2, 9.31.6, 18.2.2.7, 18.3.5.5, 22.1.1
		CN ZL2011800540004			
		DE (EP) 2661939			
		FR (EP) 2661939			
		GB (EP) 2661939			

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		IT (EP) 2661939			
		JP 5518264			
		JP 5688866			
		KR 10-1420989			
		NL (EP) 2661939			
		US 9107242			
AEG-13	US 9584200			802.11ac	20.3.11.11.2, 22.3.2, 22.3.4.5, 22.3.4.8, 22.3.8.3.3, 22.3.8.3.6, 22.3.10.11.1; Fig. 22-5, 22-6, 22-7, 22-10, 22-12
		FR (EP) 2122850			
		GB (EP) 2122850			
		US 9025688			
AEG-14	US 9848443		1	- 802.11-2012 - 802.11ac	- 8.4.2.59 - 7.3.5.11.2, 8.4.2.161, 10.39.1
		CA 2729774			
		CN 102160447			
		DE (EP) 2298021			
		DE (EP) 3035756			
		ES (EP) 2298021			
		FI (EP) 2298021			
		FR (EP) 2298021			
		FR (EP) 3035756			
		GB (EP) 2298021			
		GB (EP) 3035756			
		IN 311413			
		IT (EP) 2298021			
		KR 10-1462368			
		KR 10-1518059			
		NL (EP) 2298021			
		NL (EP) 3035756			

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		RU 2481747			
		US 8811312			
		US 9191928			
		US 9351316			
		US 9516676			
MW1	US 8514815		1	802.11n	9.30, 9.30.1, 9.30.2
		CN 101258730			
MW2	US 8284686		1	802.11n	9.30, 9.30.1, 9.30.2, 9.31, 9.31.1
MW3	US 7486720		1	802.11n	9.27, 9.30, 9.30.1, 9.30.2
		DE 602006007339			
MW4	US 8374096		1	802.11n	8.2.4.6, 8.5.12.6, 8.5.12.9, 9.30, 9.30.1, 9.30.2
PHI001	EP 1000468		6	IEEE 802.11-2012	8.4.2.58.4, 9.7.6.4, 20.3.5, 20.3.9.4.3, 20.3.11.4, 20.3.11.6, 20.3.11.7, Tables 20-11, 20-30
		CN 1143440 (C)			
		DE 699324823			
		FR (EP) 1000468			
		GB (EP) 1000468			
		IN 211145			
		JP 5150739			
		KR 10-0714860			
		KR 10-0753087			
		SG 70539			
		TW 114463			
		US 6460158			
		US 6643817			
PHI002	EP 1358722		1	- IEEE 802.11n-2009 - IEEE 802.11ac-2013	- 9.19, 20.3.12, Fig. 20-14, 20-23, 20-24 - 22.3.11.1, 22.3.11.2, 22.3.20, Fig. 22-34
		CN 1307807 (C)			
		DE 602281997			

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		FR (EP) 1358722			
		GB (EP) 1358722			
		IT (EP) 1358722			
		JP 4404551			
		KR 10-0809313			
		US 7020490			
PHI003	EP 1405461		1	IEEE 802.11-2007	1.2, 3.16, 3.77, 7.3.2.17, 7.3.2.18, 11.8.4
		CN 100429895 (C)			
		DE 602441684			
		ES (EP) 1405461			
		FR (EP) 1405461			
		GB (EP) 1405461			
		IT (EP) 1405461			
		JP 4643905			
		KR 10-0890913			
		US 7801544			
		US RE45019			
PHI004	EP 1449329		1	IEEE 802.11-2007	5.2.6, 9.9, 9.9.2.1.3, 9.2.10
		CN 100469024 (C)			
		CN 101159644 (B)			
		DE 602447623			
		ES (EP) 1449329			
		FR (EP) 1449329			
		GB (EP) 1449329			
		IT (EP) 1449329			
		JP 4152322			
		KR 10-0946234			
		TR (EP) 1449329			

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		US 7221681			
PHI005	EP 1405463		21	IEEE 802.11-2007	3.136, 7.2.3, 7.2.3.1, 7.3.2.20, 7.3.2.24, 7.4.1.5, 11.9.7.2, Table 7-8
		AT (EP) 1405463			
		BE (EP) 1405463			
		CN 100555961 (C)			
		DE 602466385			
		DK (EP) 1405463			
		ES (EP) 1405463			
		FI (EP) 1405463			
		FR (EP) 1405463			
		GB (EP) 1405463			
		IT (EP) 1405463			
		JP 4202249			
		KR 10-886334			
		NL (EP) 1405463			
		PT (EP) 1405463			
		SE (EP) 1405463			
		TR (EP) 1405463			
		US 7120138			
PHI006	EP 1486041		1	IEEE 802.11-2007	3.136, 3.171, 3.172, 3.3, 4, 7.2.3, 7.2.3.12, 7.3.2.20, 7.4.1.5, 9.2.3, 11.9, 11.9.7, 11.9.7.1
		AT (EP) 511271			
		BE (EP) 1486041			
		CH (EP) 1486041			
		CN 1643852 (B)			
		DE 603372279			
		ES (EP) 1486041			
		FR (EP) 1486041			
		GB (EP) 1486041			

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		IT (EP) 1486041			
		JP 4777614			
		KR 10-0960295			
		NL (EP) 1486041			
		SE (EP) 1486041			
		US 7756090			
PHI007	EP 1486016		1	IEEE 802.11-2007	5.4.6, 10.3.26, 10.3.26.1.3, 10.3.26.2, 10.3.26.2.3, 10.3.26.3.4, 11.6.2
		CN 100452685 (C)			
		DE 603018734			
		ES (EP) 1486016			
		FR (EP) 1486016			
		GB (EP) 1486016			
		IT (EP) 1486016			
		JP 4223962			
		KR 10-0935833			
		TR (EP) 1486016			
		US 7236502			
PHI008	EP 1537758		13	IEEE 802.11-2007	3.171, 3.172, 3.66, 3.67, 5.2.6, 7.3.2.24, 9.1.3.2, 9.9.3.2
		CN 1679369 (B)			
		DE 603439098			
		FR (EP) 1537758			
		GB (EP) 1537758			
		JP 4965077			
		KR 10-1021081			
		TR (EP) 1537758			
		TW I334286			
		US 7519032			
PHI009	EP 1573969		1	IEEE 802.11-2007	

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		AU 2003269426			3, 3.66, 5.2.6, 5.7, 7.4.2.4, 10.1, 10.3.28, 10.3.28.1, 10.3.28.1.2, 10.3.28.1.3
		CA 2504862			
		DE 603338631			
		ES (EP) 1573969			
		FR (EP) 1573969			
		GB (EP) 1573969			
		IN 219779			
		IT (EP) 1573969			
		JP 4824405			
		KR 10-1016993			
		MX 272505			
		RU 2367100			
		US 8553703			
		ZA 2005/03616			
PHI010	CN 100484064 (C)		1, 6	IEEE 802.11-2012	3.1, 3.2, 8.3.1.3, 9.3, 9.3.1, 9.3.2.1, 9.3.2.11, 9.3.4.2, 9.3.4.3, 9.23.3, 10.15.2, 10.16.1, 10.16.2, 18.3.2, 19.3.1, 20.1.4, 20.3.11.12, Fig. 10-20
		JP 4663653			
		US 10015818			
		US 9210719			
PHI011	EP 1625698		1	IEEE 802.11-2007	1.2, 7.3.2.22, 7.3.2.22.1, 7.4.1.2, 11.9.6, Table 7-30, Fig. 7-65
		AU 2004237484			
		BR PI0410108-1			
		CA 2525028			
		CN 1784865 (B)			
		DE 6020040455504			
		ES (EP) 1625698			
		FR (EP) 1625698			
		GB (EP) 1625698			
		ID P0029685			



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		IN 246688			
		IT (EP) 1625698			
		JP 5166732			
		KR 10-1160590			
		MX 267543			
		RU 2352074			
		TR (EP) 1625698			
		UA 90995			
		US 7519033			
		ZA 2005/9023			
PHI012	EP 1625699		1	IEEE 802.11-2007	
		AU 2004237489			
		CA 2525054			
		CN 1784866 (B)			
		DE 6020040455113			
		ES (EP) 1625699			
		FR (EP) 1625699			
		GB (EP) 1625699			
		ID W-00-2005-02971			
		IN 229322			
		IT (EP) 1625699			
		JP 4668170			
		JP 5520332			
		KR 10-1058063			
		MX 267541			
		RU 2354075			
		TR (EP) 1625699			
		UA 90845			

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		US 7903570			
		ZA 2005/9032			
PHI013	CN 100555927 (C)		1	IEEE 802.11-2007	5.2.6, 7.1.3.5, 7.1.3.5.2, 7.3.2.34, 9.2.5.3, 9.9.3.2, 11.2.1.4
		AU 2004217173			
		CA 2518384			
		ID P 0024651			
		IN 224542			
		JP 4970933			
		KR 10-1085994			
		MX 267542			
		RU 2340106			
		UA 84285			
		US 9439105			
		ZA 2005/07079			
PHI014	EP 1604491		1	IEEE 802.11-2007	
		AU 2004218747			
		CA 2518635			
		CN 100385870 (C)			
		DE 6020040459933			
		ES (EP) 1604491			
		FR (EP) 1604491			
		GB (EP) 1604491			
		IN 239279			
		IT (EP) 1604491			
		JP 4714676			
		KR 10-1166235			
		MX 265066			
		RU 2355130			

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		TR (EP) 1604491			
		UA 91959			
		US 8495230			
		ZA 2005/07293			
PHI015	EP 1636948		1, 11	- IEEE 802.11-2007 - IEEE 802.11n-2009	- 1.1, 7.1.1 - 3.227, 7.4a, 7.4a.1, 7.4a.3
		DE 6020040030635			
		FR (EP) 1636948			
		GB (EP) 1636948			
		JP 4686453			
		US 8494001			
PHI016	EP 1762020		1	- IEEE 802.11-2012 - IEEE 802.11ac-2013 - IEEE 802.11n-2009	- 1.2, 3.1, 9.23.5, 9.23.5.1, 20.3.2, Fig. 9-29, 20-1 - 22.1.1, 22.1.4, 22.3.2, 22.3.8.2.4, Fig. 22-4 - 1.1, 3.16, 9.13.4, 9.13.5, 20.1.4, 20.3.2, 20.3.9.2, Fig. 20-1
		AR 049919			
		CA 2570269			
		CN 1969480 (B)			
		DE 6020050173927			
		ES (EP) 1762020			
		FR (EP) 1762020			
		GB (EP) 1762020			
		ID 23383			
		IN 258214			
		IT (EP) 1762020			
		JP 4679578			
		KR 10-1170404			
		MX 268736			
		MY -13994-A			

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		RU 2372721			
		TW I393384			
		UA 91506			
		US 7953053			
		US 8289942			
		ZA 2007-00431			
PHI017	US 8406331		4, 19	- IEEE 802.11-2007 - IEEE 802.11n-2009 - IEEE 802.11ac-2013	- 7.3.2.9, 9.8.1 - 7.3.2.58, 11.14, 11.14.12, 11.14.3.1, 11.14.3.3, Annex J - 3.2, 9.3.1, 9.3.2.5a, 9.3.2.6, 18.2.2.7
		CN 1973492 (B)			
PHI018	US 7826556		1	- IEEE 802.11-2012 - IEEE 802.11ac-2013 - IEEE 802.11n-2009	- 18.3.5.7, Fig. 18-12 - 22.1.4, 22.3.11, 22.3.11.1, 22.3.4.9, 22.3.4.9.1, 22.3.10.8, Fig. 22-10 - 3.249, 20.1.1, 20.1.4, 20.3.4, 20.3.11.7.2, 20.3.11.7.3, Table 20-8, Fig. 20-3
		CN 101076965 (B)			
		IN 264508			
PHI019	US 8902820		1	IEEE 802.11ac-2013	3.1, 4.3.10a, 8.3.1.2, 9.3.1, 9.3.2.5a, 9.3.2.6, 9.7.10, 9.19.2.4, 18.2.2.7, 18.2.2.8, 18.3.5, 22.1.1
		CN 101208923 (B)			
		DE 6020060499701			
		ES (EP) 1900167			
		FR (EP) 1900167			
		GB (EP) 1900167			
		IN 273142			
		IT (EP) 1900167			
		JP 5027122			
		KR 10-1313779			
		NL (EP) 1900167			
		TR (EP) 1900167			
PHI020	US 8335272		1	IEEE 802.11n-2009	3.246, 20.3.11.8.1, Fig. 20-3, Table 20-17

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		CN 101297500 (B)			
		IN 278613			
		KR 10-1313785			
		TW I410063			
		US 9325404			
		US 9768846			
PHI021	EP 2198664		1	- IEEE 802.11n-2009 - IEEE 802.11ac-2013	- 7.3.1.25, 7.4.10.4, 9.16.1.8.1, 9.16.1.8.2, 9.17, 9.19.1, 9.19.3 - 3.1, 8.3.1.20, 9.29.1, 9.29.3, 9.31.5.1, 9.31.5.2, 22.1.1
		CN 101796880 (B)			
		DE 6020080195066			
		ES (EP) 2198664			
		FR (EP) 2198664			
		GB (EP) 2198664			
		IT (EP) 2198664			
		JP 5639470			
		KR 10-1500973			
		NL (EP) 2198664			
		PL (EP) 2198664			
		TR (EP) 2198664			
		TW I455522			
		US 8842606			
PHI022	EP 2263407		1	IEEE 802.11ac-2013	3.1, 22.1.1, 22.1.4, 22.3.1, 22.3.2, 22.3.8.1, 22.3.8.2.4, 22.3.8.3.1, 22.3.8.3.3, 22.3.10.5.5, 22.4.3, Fig. 22-18, 22-19, Table 22-12
		CN 101960899 (B)			
		DE 6020090385801			
		ES (EP) 2263407			
		FR (EP) 2263407			
		GB (EP) 2263407			
		IT (EP) 2263407			

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		JP 5503561			
		KR 10-1594545			
		KR 10-1630868			
		NL (EP) 2263407			
		TR (EP) 2263407			
		TW I471043			
		US 9497744			