

## DVB-S2X LICENSING PROGRAM - PATENT TECHNICAL COVERAGE

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Family Code	Reference patent	Family Members	Exemplary Claim(s)	Relevant Sections of the DVB-S2X Standard (ETSI EN 302 307-2 v1.1.1)
<b>DTV01X</b>	EP 1738586		1	EN 302 307-2 : Sections 4.2; 5.1.8; Annex E
	US 7460832		15	EN 302 307-2: Sections 1, 4.1, 4.2, 4.3, and Annex E
	US 7551736		1	EN 302 307-2: Sections 1, 4.1, 4.2, 4.3, and Annex E
	US 7412209		1	EN 302 307-2: Sections 1, 4.1, 4.2, 4.3, and Annex E
		DE (EP) 1738586		
		FR (EP) 1738586		
		GB (EP) 1738586		
<b>DTV02X</b>	EP 1741199		1	EN 302 307-2 : Sections 4.2; 5.1.8; Annex E
	US 8406425		1	EN 302 307-2: Sections 1, 4.1, 4.2, 4.3, and Annex E
		DE (EP) 1741199		
		ES (EP) 1741199		
		FR (EP) 1741199		
		GB (EP) 1741199		

		IT (EP) 1741199		
<b>DTV03X</b>	US 9060369		1	EN 302 307-2: Sections 1, 4.1, 4.2, 4.3, and Annex E
<b>ESA01X</b>	US 7123663		1	EN 302 307-1: Sections 1, 5.4, 5.4.3, 5.4.4, Annex J; Figures 11, 12; Table 10. EN 302 307-2: Sections 5.4, 5.4.2, 5.4.3, 5.4.4, 6; Figures 5, 6, 7, 8, 9; Tables 10a, 10b, 11a, 11b, 11c, 11d, 11e, 12a, 12b, 12c, 12d, 12e, 20a. Section 5.4.5; Figures 10, 11, 12; Tables 13a, 13b, 13c, 13d, 13e, 13f
<b>FRA01X</b>	EP 2976848		1	EN 302 307-2: Sections 4.3, E.1, E.2, E.2.1, E.3.6, E.3.6.1, E.3.6.3, E.3.6.3.2, E.3.6.4, E.3.6.6
		CZ (EP) 2976848		
		DE 60 2014 004 634.7		
		ES 2605885		
		FR (EP) 2976848		
		GB (EP) 2976848		
		CZ (EP) 2976848		
		DE 60 2014 004 634.7		
		ES 2605885		
		FR (EP) 2976848		
		GB (EP) 2976848		
		HK 1219825		
		IT (EP) 2976848		
		NL (EP) 2976848		
	PL (EP) 2976848			
	TR (EP) 2976848			
<b>HUG01X</b>	US 8887024		1	EN 302 307-1: Sections 1, 5.3, 5.3.2, 5.3.2.1, 5.3.2.2; Fig 6; Tables 5a, 5b, 7a, 7b

				EN 302 307-2: Sections 5.3, 5.3.2, 5.3.2.1, 5.3.2.2, Annex B; Tables 8a, 8b, 8c, B.1-B.10
	US 9246634		1	EN 302 307-2: Sections 1, 4.0, 4.1, 4.2, 4.3, 5.3, 5.3.2, 5.3.2.1, 5.3.2.2, and Annex C
	US 9294131		1	EN 302 307-2: Sections 1, 4.0, 4.1, 4.2, 4.3, 5.3, 5.3.2, 5.3.2.1, 5.3.2.2, and Annex C
<b>HUG02X</b>	US 8964896		1, 7	EN 302 307-2: Sections 1, 4.1, 4.2, 4.3, 5.1, and 5.5
<b>HUG03X</b>	US 8929400		1	EN 302 307-2: Sections 3.2, 4.0, 4.1, 4.3, 5.3, 5.4, 5.5, 5.6
	US 9143277		1	EN 302 307-2: Sections 3.2, 4.0, 4.1, 4.3, 5.3, 5.4, 5.5, 5.6
<b>RAI01X</b>	EP 3044897		2, 13	EN 302 307-1: 3, 3.2, Annex D.2, Annex D.3 EN 302 307-2: 2, 2.1, 5, 5.1, 5.1.8, 5.1.8.1, 5.1.8.2, Annex D.1, Annex D.1.1
	US 9883256		2, 14	EN 302 307-1: Sections 4.2, D.2; Figures 1, D.2 EN 302 307-2: Sections 4.3, 5, 5.1, 5.1.1, 5.1.8.1, 5.1.8.2, 5.1.8.3, D.1.1; Figures 2, 3; Table 1
	US 10237630		2, 15	EN 302 307-1: Sections 4.2 and D.2; Figures 1 and D.2. EN 302 307-2: Title; Sections 4.3, 5, 5.1, 5.1.1, 5.1.8.1, 5.1.8.2, 5.1.8.3, D.1.1; Figures 2 and 3; Table 1
		AT (EP) 3044897		
		BR 112016005141-6		
		BG (EP) 3044897		
		CH (EP) 3044897		
		CN ZL201480049347.3		
		CN 201910478782.2		
		CZ (EP) 3044897		
	DE (EP) 3044897			
	DK (EP) 3044897			
	EE (EP) 3044897			

		ES (EP) 3044897		
		FI (EP) 3044897		
		FR (EP) 3044897		
		GB (EP) 3044897		
		HK 1226884		
		HR (EP) 3044897		
		HU (EP) 3044897		
		IE (EP) 3044897		
		IT (EP) 3044897		
		KR 102283414		
		LU (EP) 3044897		
		NL (EP) 3044897		
		PL (EP) 3044897		
		RO (EP) 3044897		
		RU2658677		
		RU 2681644		
		SE (EP) 3044897		
		SI (EP) 3044897		
		SK (EP) 3044897		
		TR (EP) 3044897		
<b>RAI02X</b>	US 10651924		1, 2, 21, 22	ETSI EN 302 307-1: Introduction; Section 4.2. ETSI EN 302 307-2: Sections 4.3, 5.1, 5.1.8.1, 5.1.8.2, 5.1.8.3; Figures 2 and 3; Table 1.
		BR 112016001538-0		
<b>RAI03X</b>	EP 2828997		2, 7	ETSI EN 302 307-2: Clauses 4.2, 4.3, 5.1.5, 5.1.6, 5.3, 5.4, Annexes E.3.4, E.3.4.1, E.3.5.1; Figures E.6, E.8; Table 1. ETSI EN 302 307-1: Clauses 4.2, 5.1.5, 5.1.6, 5.3, 5.4; Figures 1, 3, 6
		DE (EP) 2828997		
		ES (EP) 2828997		

		FR (EP) 2828997		
		GB (EP) 2828997		
		IL 234189a		
		IT (EP) 2828997		
<b>SON01X</b>	EP 2660983		12	ETSI EN 302 307-1: Sections: 1, 3.2, 4, 4.2, 4.3, 5.3, 5.3.2, 5.3.2.1, 5.3.2.2 ETSI EN 302 307-2: Sections: 5.3, 5.3.2.2, Annex C
		DE (EP) 2660983		
		FR (EP) 2660983		
		GB (EP) 2660983		
		NL (EP) 2660983		
<b>STE01X</b>	EP 2957084		1, 4	EN 302 307-1: Sections 5.3, 5.4, 5.4.4, 5.6 EN 302 307-2: Sections 4.3, 5.3, 5.4, 5.4.4, 5.6
	US 9306791		1, 2	EN 302 307-1: Sections 4.2, 5.4.3, 5.4.4; Tables 9 and 10; and Figures 1, 11 and 12 EN 302 307-2: Sections 4.3, 5.4, 5.4.3, 5.4.4, 5.4.5, 5.4.6, and 5.4.7; Tables 1, 11a-e, 12a-e, 13a-f, 14a-b, 15a-d; and Figures 6-15
		BE (EP) 2957084		
		BE (EP) 3206354		
		DE 60 2014 008 299.8		
		DE 60 2014 030 700.0		
		DK (EP) 2957084		
		DK (EP) 3206354		
		ES 2629907		
		ES 2696928		
		FR (EP) 2957084		
		FR (EP) 3206354		
		GB (EP) 2957084		
		GB (EP) 3206354		

		HK 1239986		
		IT (EP) 2957084		
		IT (EP) 3206354		
		LU (EP) 2957084		
		LU (EP) 3206354		
		PL (EP) 2957084		
		PL (EP) 3206354		
		SE (EP) 2957084		
		SE (EP) 3206354		
		TR (EP) 2957084		
		TR (EP) 3206354		
<b>STE02X</b>	EP 2073400		5, 9	EN 302 307-1: Sections 1, 4.2, 5.5.2, 5.5.2.2, Annex M, M.2, M.2.5 EN 302 307-2: Sections 5.5, 5.5.2, 5.5.2.2, 5.5.2.4, Annex M, M.2.3, M.2.4
		BE (EP) 2073400		
		DE 60 2008 012 306.5		
		FR (EP) 2073400		
		GB (EP) 2073400		
		IT (EP) 2073400		
		NL (EP) 2073400		
<b>STE03X</b>	EP 3830978		1	EN 302 307-1: Sections 5.3, 5.5 EN 302 307-2: Annex E (E.2, E.3.7)
		BE (EP) 3830978		
		CN 112514284		
		DE 602019014585.3		
		DK (EP) 3830978		
		ES 2921424		
		FR (EP) 3830978		
		GB (EP) 3830978		

		HK 40042813		
		IT (EP) 3830978		
		LU (EP) 3830978		
		LV (EP) 3830978		
		PL (EP) 3830978		
		RU 2756688		
		SE (EP) 3830978		
		SI (EP) 3830978		
		SK (EP) 3830978		
		TR (EP) 3830978		
		ZA 2021/01203		
<b>WMW01X</b>	DE 10 2012 101 802		1, 10	EN 302 307-1: Clauses 4.2, 5.5, 5.5.2, Annex M, M.2, M.2.1, M.2.5 EN 302 307-2: Title, Clauses 4.2, 5.5, 5.5.2, Annex E, E.3.6.3.1, E.3.6.3.4, M, M.2, M.2.1, M.2.5
	EP 2605431		7, 8	
		DE (EP) 2605431		
		FR (EP) 2605431		
		GB (EP) 2605431		
		LU (EP) 2605431		