



**EULYNX Initiative**

## **Signal aspect table**

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Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.6	Head	<b>1 Introduction</b>													
Eu.SAT.7	Head	<b>1.1 Release information</b>													
Eu.SAT.8	Info	[Eu.Doc.37] Signal aspect table CENELEC Phase: 4-5 Version: 2.2 (1.G) Approval date: 29.05.2024													
Eu.SAT.309	Info	<b>Version history</b>													
Eu.SAT.347	Info	version number: 2.0 (0.A) date: 08.12.2017 author: Mirko Blazic review: CCB changes: EULS-169, EULS-170, EULS-177													
Eu.SAT.348	Info	version number: 2.1 (0.A) date: 28.10.2019 author: Nico Huurman review: cluster changes: EULS-287, EULS-288, EULS-289, EULS-290, EULS-291, EULS-292, EULS-293, EULS-294, EULS-299, EULS-300, EULS-303													
Eu.SAT.370	Info	version number: 2.2 (0.A) date: 12.12.2019 author: Nico Huurman review: CCB changes: EULS-282, EULS-305													
Eu.SAT.371	Info	version number: 2.2 (0.B) date: 03.04.2020 author: Nico Huurman review: cluster changes: EULS-309, EULS-310													
Eu.SAT.376	Info	version number: 2.2 (0.C) date: 23.06.2020 author: Nico Huurman review: CCB changes: -													
Eu.SAT.385	Info	version number: 2.2 (0.D) date: 25.01.2022 author: Nico Huurman review: ÖBB and SBB changes: EULS-357, EULS-376, EUAR-377													
Eu.SAT.386	Info	version number: 2.2 (0.E) date: 18.05.2022 author: Nico Huurman review: CCB changes: EULS-381, EULS-383, EULS-392													
Eu.SAT.393	Info	version number: 2.2 (0.F) date: 30.04.2024 author: Nico Huurman, Ricky Holz review: SBB and SNCF changes: EULS-445, EULS-455, EULS-472													
Eu.SAT.494	Info	version number: 2.2 (1.G) date: 18.06.2024 author: Nico Huurman, Ricky Holz review: TACS Mirror Group changes: EULS-473, EULS-477, EULS-481													
Eu.SAT.9	Head	<b>1.2 Impressum</b>													
Eu.SAT.10	Info	Publisher: <b>EULYNX Initiative</b>  A full list of the <b>EULYNX Partners</b> can be found on <a href="https://eulynx.eu/">https://eulynx.eu/</a>													
Eu.SAT.12	Info	Responsible for this document: EULYNX Project Management Office <a href="http://www.eulynx.eu">www.eulynx.eu</a>													
Eu.SAT.308	Info	Copyright EULYNX Partners All information included or disclosed in this document is licensed under the European Union Public Licence EUPL, Version 1.2 or later.													
Eu.SAT.13	Head	<b>1.3 Purpose</b>													

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.14	Info	The purpose of the document is to define the signal aspects, and allocate codes to the signal aspects, which are used as values in the telegrams of SCI interfaces. This document is intended to be used for the provision of the aspect coding in the relevant payloads in the Interface specifications for those SCI interfaces, which transmit signal aspect information.													
Eu.SAT.15	Info	This document list the signal aspects of all participating infrastructure managers. This table is used as translation between the coding used in the telegrams and the actual signal aspects of the individual infrastructure manager.													
Eu.SAT.31	Head	<b>1.4 Applicable documents</b>													
Eu.SAT.32	Info	The current versions of documents used as input or related to this document are listed in the EULYNX Documentation Plan [Eu.Doc.11]. The relationships between the documents are displayed in the Appendix A1 Documentation plan and structure [Eu.Doc.11_A1].													
Eu.SAT.62	Head	<b>1.5 Terms and abbreviations</b>													
Eu.SAT.63	Info	The terms and abbreviations are listed in the EULYNX Glossary [Eu.Doc.9].													
Eu.SAT.98	Head	<b>1.6 Variability management</b>													
Eu.SAT.99	Info	Applicable aspects to each IM are listed under the column of each IM with the national aspect name or abbreviation. If an aspect is not applicable to the IM, it is marked as " - ".													
Eu.SAT.3	Head	<b>2 List of signal aspects</b>													
Eu.SAT.334	Head	<b>2.1 Basic aspect types</b>													
Eu.SAT.208	Head	<b>2.1.1 Basic aspect on main signal</b>													
Eu.SAT.209	Req	Stop / Danger (1)	Stop	43/0x01	Po0	Red/Stop/On	SZ1	Hp0	Halt	SFA 1	HS01	-	Carré : C / Carré violet : Cv / Guidon d'arrêt fermé: GA	HS Stop	SZ 1
Eu.SAT.210	Req	Stop / Danger (2)	Stop	43/0x21	-	-	-	-	-	-	-	-	Sémaphore de BM (+ pancarte BM): S + BM	-	-
Eu.SAT.211	Req	Proceed / Clear (1)	Proceed normally	43/0x04	Po1	Green	SZ2	Ks1 Proceed	Frei	SFA 2	HS41	-	Feu vert : VL (Voie Libre)	Tvsi	SZ 2a SZ 2b
Eu.SAT.213	Req	Flashing clear (1)	Proceed, dependent on administration	43/0x05	-	Flashing Green	SZ4	Ks1 Proceed, expect lower speed at next signal	-	-	-	-	Feu vert clignotant: (VL)	-	SZ 4
Eu.SAT.214	Req	Flashing clear (2)	Proceed, dependent on administration	43/0x06	-	-	-	Ks1 Proceed, expect lower speed at next signal, reduced braking distance	-	-	HS31, HS32	-	-	-	-
Eu.SAT.215	Req	Approach / Caution	Proceed at reduced speed, prepare to stop	43/0x07	-	Yellow	SZ3	Ks2 Proceed, expect stop	-	-	HS21	-	Avertissemen t: A	-	SZ 3
Eu.SAT.316	Req	Staff responsible	Drive on sight, staff responsible	43/0x17	-	-	-	-	-	-	HS11	-	Feu rouge clignotant : (S)	-	-
Eu.SAT.216	Req	Flashing yellow	Diverging route with lower speed set ahead	43/0x18	-	Single flashing Yellow	-	-	-	-	-	-	Ralentisseme nt : R -> vitesse limitée à 30km/h Ralentisseme nt clignotant: (R) -> vitesse limitée à 60km/h	-	-
Eu.SAT.217	Req	Preliminary caution	Clear, expect yellow at next signal	43/0x28	-	Double yellow	-	-	-	-	-	-	Feu jaune clignotant : (A)	-	-
Eu.SAT.218	Req	Flashing double yellow	Expect flashing yellow at next signal	43/0x47	-	Double flashing yellow	-	-	-	-	-	-	-	-	-

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.219	Req	Expect stop	Expect stop (repetition of main signal with stop / danger and/or shortened distance)	43/0x08	-	-	-	Ks2 with ZL	-	-	-	-	-	-	-
Eu.SAT.340	Req	Expect limited speed	Proceed, expect lower speed at next signal	43/0x0B	-	-	-	-	-	-	HS22, HS23	-	-	-	-
Eu.SAT.220	Req	Shunting allowed	Shunting allowed at a main signal	43/0x02	-	Subsidiary Off	-	Hp0+Sh1	Verschub-verbot aufgehoben	-	-	-	Feu blanc : M	-	-
Eu.SAT.222	Req	Ignore signal	Operationally out of use	43/0x0A	-	-	-	Kennlicht (Marker light)	-	-	HS51	-	Croix Lumineuse Blanche (Croix de Saint-André) : X	-	-
Eu.SAT.320	Req	Proceed, object safe to pass	Proceed, object(s) are safe to pass	43/0x38	-	-	-	-	-	-	HS52+TS01	-	-	-	-
Eu.SAT.223	Req	Limited speed	Run at the limited permitted speed. The train can drive with the regular permitted speed after passing switch area.	43/0x10	Po2	-	SZ8	-	Frei 40	-	-	-	Rappel de Ralentissement : RR -> Le train franchit le signal en visant la vitesse de 30km/h à la premiere aiguille rencontrée	-	SZ 6b SZ 6d
Eu.SAT.226	Req	Clear 60	Proceed with reduced speed max 60 km/h at the first point	43/0x20	Po3	-	-	-	Frei 60	-	-	-	Rappel de Ralentissement clignotant : (RR) -> Le train franchit le signal en visant la vitesse de 60km/h à la premiere aiguille rencontrée	-	-
Eu.SAT.227	Req	Clear 80	Proceed with reduced speed max 80 km/h at the first point	43/0x30	Po4	-	-	-	-	-	-	-	-	HS Drive 80	-
Eu.SAT.228	Req	PoSA	Proceed on Sight Authority / Pass signal at stop	43/0x41	-	PoSA	-	-	-	-	-	-	-	-	-
Eu.SAT.375	Req	Worksite	Worksite operation	43/0x14	-	-	-	-	-	SFA C	-	-	-	-	-
Eu.SAT.235	Req	Intended dark	Signal commanded to dark	43/0xFF	Po-	-	SZ1 (dark)	-	-	-	-	-	Dark signal, Guidon d'arrêt ouvert	-	SZ 1 (dark)
Eu.SAT.237	Req	Limited speed/expect stop	Pass at the limited speed/prepare to stop	43/0x70	-	-	SZ5	-	-	-	-	-	-	-	SZ 5
Eu.SAT.238	Req	Limited speed/expect clear	Run at limited speed/expect regular speed	43/0x60	-	-	SZ6	-	-	-	-	-	-	-	SZ 6a
Eu.SAT.239	Req	Limited speed/expect limited speed	Run at limited speed/expect limited speed	43/0x50	-	-	SZ7	-	-	-	-	-	-	-	SZ 6c
Eu.SAT.240	Req	Drive with caution (call on signal)	Run on sight (station 20 km/h, outside station not higher than 100 km/h)	43/0x31	-	-	SZ9	-	-	-	-	-	-	-	SZ 7
Eu.SAT.242	Req	Stop with departure signal on	Hp0 with departure signal (for LZB and ETCS)	43/0x03	-	-	-	DB	-	-	-	-	-	-	-
Eu.SAT.365	Req	Permissive stop	Stop then drive on sight, staff responsible	43/0x0D	-	-	-	-	-	-	-	-	Sémaphore de BAL / Sémaphore de BAPR (+ pancarte PR)	-	-
Eu.SAT.366	Req	Reduced shunting allowed	Shunting allowed at main signal, departure to the line forbidden	43/0x22	-	-	-	-	-	-	-	-	Feu blanc clignotant	-	-
Eu.SAT.265	Head	2.1.2 Basic aspect on distant signals													-
Eu.SAT.267	Req	Expect clear (1)		43/0x24	Eo1	-	-	-	-	-	-	-	-	-	-
Eu.SAT.268	Req	Expect clear 35		43/0x10	Eo2	-	-	-	-	-	-	-	-	-	-

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_310900	NR_007000	SZ_007900	DB_008000	ÖBB_008100	CFL_008200	PR_008400	SBB_008500	SNCF_008700	TRV_007400	HZI_007800
Eu.SAT.269	Req	Expect clear 60		43/0x20	Eo3	-	-	-	Hauptsignal frei 60	-	-	-	-	-	-
Eu.SAT.270	Req	Expect clear 80		43/0x30	Eo4	-	-	-	-	-	-	-	-	-	-
Eu.SAT.271	Req	Expect stop		43/0x07	Eo0	-	SZ10	-	Vorsicht	-	VS21	-	-	-	SZ 8
Eu.SAT.272	Req	Expect clear (2)		43/0x04	-	-	SZ11	-	Hauptsignal Frei	-	VS41	-	-	-	SZ 9
Eu.SAT.321	Req	Expect object safe to pass (Distant Signal to HS52)	Expect object(s) safe to pass (Distant Signal to HS52)	43/0x39	-	-	-	-	-	-	VS51	-	-	-	-
Eu.SAT.273	Req	Expect limited speed	Pass at the regular permitted speed, the next signal shows limited speed	43/0x05	-	-	SZ12	-	Hauptsignal Frei 40	-	VS22	-	-	-	SZ 10
Eu.SAT.274	Req	Intended dark	Signal commanded to dark	43/0xFF	Eo-	-	-	-	-	-	-	-	-	-	-
Eu.SAT.287	Head	2.1.3 Basic aspect for signal repetition													
Eu.SAT.288	Req	Main signal shows stop	Repetition of main signal at stop	43/0x08	-	BR On	SZ13	-	Hauptsignal zeigt Halt	-	VS61	-	Dispositif d'Aide à la Mise en Mouvement DAMM éteint	-	SZ 11
Eu.SAT.289	Req	Main signal shows clear (1)	Repetition of main signal at proceed	43/0x04	-	BR Off	SZ14	-	Hauptsignal zeigt Frei	-	VS63	-	Dispositif d'Aide à la Mise en Mouvement DAMM allumé	-	SZ 12
Eu.SAT.290	Req	Main signal shows limited speed	Repetition of main signal at proceed with limited speed	43/0x05	-	-	SZ15	-	Hauptsignal zeigt Frei mit Geschwin- digkeitsbe- schränkung	-	VS62	-	-	-	SZ 13
Eu.SAT.234	Req	Repetition of main signal with proceed / clear	Repetition of main signal with proceed / clear	43/0x14	-	BR Off (Green)	-	-	-	-	-	-	-	-	-
Eu.SAT.275	Head	2.1.4 Basic aspect on shunting signals													
Eu.SAT.276	Req	Stop (1)		43/0x11	Ro0	On	-	-	Verschub- verbot	SFHM 1	-	-	Carré Violet : Cv	Dvsi horizontal	-
Eu.SAT.282	Req	Stop (2)		43/0x41	-	-	-	-	-	SFVb1	-	-	-	-	-
Eu.SAT.372	Req	Worksite (1)	Worksite operation	43/0x21	-	-	-	-	-	SFVb C	-	-	-	-	-
Eu.SAT.373	Req	Worksite (2)	Worksite operation	43/0x12	-	-	-	-	-	SFHM C	-	-	-	-	-
Eu.SAT.284	Req	Stop (4)		43/0x01	-	-	SZ28	-	-	-	-	-	-	-	SZ 17 SZ 19
Eu.SAT.278	Req	Clear with caution		43/0x16	Ro1	-	-	-	-	-	-	-	-	Dvsi skew left	-
Eu.SAT.392	Req	Clear with caution		43/0x1A	-	-	-	-	-	-	-	-	-	Dvsi skew right	-
Eu.SAT.279	Req	Free for shunting (1)		43/0x19	Ro2	-	SZ29	-	Verschub- verbot aufgehoben	SFVb2	RG11	-	-	-	SZ 20
Eu.SAT.221	Req	Shunting allowed	Shunting allowed at a dwarf signal	43/0x09	-	Off	-	Sh1	-	-	-	-	-	Dvsi vertical	-
Eu.SAT.374	Req	Proceed / Clear	Proceed normally	43/0x0C	-	-	-	-	-	SFHM 2	-	-	-	-	SZ 18
Eu.SAT.281	Req	Intended dark	Signal commanded to dark	43/0xFF	Ro-	-	-	-	-	-	RG01	-	-	-	-
Eu.SAT.291	Head	2.1.5 Basic aspect on limit track signals (LTS)													
Eu.SAT.292	Req	Stop		43/0x11	-	-	SZ16	-	Fahrverbot	-	-	-	-	-	SZ 15
Eu.SAT.293	Req	Proceed / Clear		43/0x09	-	-	SZ17	-	Fahrverbot aufgehoben	-	-	-	-	-	SZ 16
Eu.SAT.377	Req	Shunting allowed		43/0x19	-	-	SZ17	-	Verschub- verbot aufgehoben	-	-	-	-	-	SZ 16
Eu.SAT.394	Head	2.1.6 Basic aspect													
Eu.SAT.395	Req	restriction for all movements		43/0xA0	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_310900	NR_007000	SZ_007900	DB_008000	ÖBB_008100	CFL_008200	PR_008400	SBB_008500	SNCF_008700	TRV_007400	HZI_007800
Eu.SAT.396	Req	restriction for train movements		43/0xA1	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.397	Req	restriction for shunting movements		43/0xA2	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.398	Req	degradation of driving mode for train		43/0xA3	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.399	Req	restriction in short distance		43/0xA4	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.400	Req	position of point		43/0xA5	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.401	Req	prepare for condition/command		43/0xA6	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.402	Req	confirmation of condition/command		43/0xA7	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.403	Req	denial of condition/command		43/0xA8	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.404	Req	preparation signal		43/0xA9	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.349	Head	<b>2.1.7 Signals without a basic signal aspect</b>													
Eu.SAT.350	Req	Not equipped	Signal is not equipped with a basic signal aspect	43/0xFF	-	-	-	Not equipped	-	-	Not equipped	-	Not equipped	-	-
Eu.SAT.419	Req	no information		43/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.338	Head	<b>2.2 Extension of basic aspect types</b>													
Eu.SAT.229	Req	Substitution signal	Pass signal at stop	44/0x01	-	-	-	Zs1	Ersatzsignal	-	-	-	-	-	-
Eu.SAT.230	Req	Drive on sight	Pass signal at stop, proceed with caution	44/0x02	-	-	-	Zs7	Vorsicht-signal	-	-	-	-	-	-
Eu.SAT.231	Req	Pass signal at stop to opposite track	Pass signal at stop to opposite track	44/0x03	-	-	-	Zs8	-	-	-	-	-	-	-
Eu.SAT.232	Req	Route to opposite track	opposite track indication	44/0x04	-	-	-	Zs6	-	-	-	-	-	-	-
Eu.SAT.233	Req	Expect early stop	Expect early stop	44/0x05	-	-	-	Zs13	-	-	-	-	Bande jaune	-	-
Eu.SAT.333	Req	Passing marker board indicator	Passing marker board without movement authority is allowed	44/0x06	-	-	-	-	-	-	ETCS11	-	-	-	-
Eu.SAT.325	Req	Stop for H-signal	Stop for freight trains (H)	44/0x08	-	-	-	-	-	-	LH01	-	-	-	-
Eu.SAT.324	Req	Expect stop for H-signal	Proceed, expect to stop for H-signal, for freight trains (L)	44/0x09	-	-	-	-	-	-	LH21	-	-	-	-
Eu.SAT.327	Req	Stop, freight only	Stop for selective trains, freight only (G)	44/0x0A	-	-	-	-	-	-	XG01	-	-	-	-
Eu.SAT.328	Req	Proceed, freight only	Proceed for selective trains, freight only (X)	44/0x0B	-	-	-	-	-	-	XG11	-	-	-	-
Eu.SAT.329	Req	Expect stop, freight only	Expect stop for selective trains, freight only (flashing X)	44/0x0C	-	-	-	-	-	-	XG21	-	-	-	-
Eu.SAT.295	Req	Drive to LTS	Pass at the regular permitted or limited permitted speed, adjust speed to stop before the limit track signal which is not at the end of the track (with braking distance and with overlap)	44/0x10	-	-	SZ20	-	-	-	-	-	-	-	-
Eu.SAT.296	Req	Drive to LTS without braking distance	Pass at the limited permitted speed, adjust speed to stop before the limit track signal (without braking distance and with overlap)	44/0x11	-	-	SZ21	-	-	-	-	-	-	-	-
Eu.SAT.297	Req	Expect driving to LTS without braking distance	Pass at the regular permitted or limited permitted speed till the next main signal expect SZ21 on next main signal	44/0x12	-	-	SZ22	-	-	-	-	-	-	-	-

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.299	Req	No overlap	Pass at the limited permitted speed until next main signal; adjust speed to stop before the next main signal without overlap.	44/0x13	-	-	SZ23	-	-	-	-	-	-	-	-
Eu.SAT.300	Req	Clearance for departure	Start with driving (on LTS)	44/0x20	-	-	SZ68	-	-	-	-	-	-	-	-
Eu.SAT.367	Req	Expect early stop mid-platform	Expect early stop mid-platform	44/0x25	-	-	-	-	-	-	-	-	Bande jaune clignotant	-	-
Eu.SAT.378	Req	Expect stop		44/0x31	-	-	-	-	Vorsicht	-	-	-	-	-	-
Eu.SAT.379	Req	Expect clear		44/0x32	-	-	-	-	Hauptsignal Frei	-	-	-	-	-	-
Eu.SAT.380	Req	Expect limited speed		44/0x33	-	-	-	-	Hauptsignal Frei 40	-	-	-	-	-	-
Eu.SAT.381	Req	Expect clear 60		44/0x34	-	-	-	-	Hauptsignal Frei 60	-	-	-	-	-	-
Eu.SAT.382	Req	Main signal shows stop	Repetition of main signal at stop	44/0x41	-	-	-	-	Hauptsignal zeigt Halt	-	-	-	-	-	-
Eu.SAT.383	Req	Main signal shows clear	Repetition of main signal at proceed	44/0x42	-	-	-	-	Hauptsignal zeigt Frei	-	-	-	-	-	-
Eu.SAT.384	Req	Main signal shows limited speed	Repetition of main signal at proceed with limited speed	44/0x43	-	-	-	-	Hauptsignal zeigt Frei mit Geschwin- digkeitsbe- schränkung	-	-	-	-	-	-
Eu.SAT.346	Req	Intended dark	Commanded to dark	44/0xFF	-	-	dark	dark	-	-	ETCS01, LH31	-	Bande jaune - Dark	-	dark
Eu.SAT.351	Req	Not equipped	Signal is not equipped with an extension of the basic signal aspect	44/0xFF	Not equipped	Not equipped	Not equipped	Not equipped	-	Not equipped	Not equipped	-	Not equipped	-	Not equipped
Eu.SAT.420	Req	expect occupied track		44/0xA0	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.421	Req	pre warning		44/0xA1	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.422	Req	drive on sight		44/0xA2	-	-	-	-	-	-	-	see SBB Mapping Table	Semaphore de BAL	-	-
Eu.SAT.423	Req	level crossing protected		44/0xA3	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.424	Req	aspect on dwarf signal		44/0xA4	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.425	Req	aspect on tram signal		44/0xA5	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.426	Req	stop at platform		44/0xA6	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.427	Req	no platform in station		44/0xA7	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.428	Req	stop moving		44/0xA8	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.429	Req	clear track		44/0xA9	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.430	Req	moving allowed		44/0xAA	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.431	Req	passing allowed		44/0xAB	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.432	Req	stop for SIM trains		44/0xAC	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-



Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.433	Req	related signal allow passing		44/0xAD	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.434	Req	push slow		44/0xAE	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.435	Req	stop pushing		44/0xAF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.436	Req	no information		44/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.243	Head	2.3 Speed indicators													
Eu.SAT.244	Req	Speed indication (10 km/h) to	CFL: SFI, SFVo, SFI/RI SZ: SZ18	45/0x01	-	-	SZ18	Zs3 (1)	-	-	CBV (1)	see SBB Mapping Table	Rappel / TIVR fermé	-	SZ 14 (1)
Eu.SAT.246	Req	Speed indication (150 km/h)	CFL: SFI, SFVo, SFI/RI or SFAvI, SFAvVo SZ: SZ18	45/0x0F	-	-	SZ18	Zs3(15)	-	-	CBV (15)	see SBB Mapping Table	Rappel / TIVR fermé	-	SZ 14 (15)
Eu.SAT.368	Req	Speed indication (160 km/h)		45/0x10	-	-	-	-	-	-	-	see SBB Mapping Table	Tableau Indicateur de Vitesse limite de Rappel TIVR fermé	-	-
Eu.SAT.250	Req	Speed indication for ATP control	Special case for Finland: use coding of speed indication for ATP control	45/0x11 to 45/0x1F	ATP control	-	-	-	-	-	-	-	-	-	-
Eu.SAT.342	Req	Flashing speed indication (10 km/h) to	Expect lower speed at next signal, continue braking at signal	45/0x81	-	-	-	-	-	-	CBK (1)	-	-	-	-
Eu.SAT.344	Req	Flashing speed indication (150 km/h)	Expect lower speed at next signal, continue braking at signal	45/0x8F	-	-	-	-	-	-	CBK (15)	-	-	-	-
Eu.SAT.247	Req	Speed indication dark	Commanded to dark	45/0xFF	No ATP control	-	dark	dark	-	-	dark	-	Dark signal / TIVR ouvert	-	dark
Eu.SAT.352	Req	Not equipped	Signal is not equipped with a speed indicator	45/0xFF	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	-	Not equipped	-	Not equipped
Eu.SAT.437	Req	speed indication (0 km/h)		45/0x00	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.438	Req	Speed indication (170 km/h) to		45/0xA0	-	-	-	-	-	-	-	see SBB Mapping Table	Tableau Indicateur de Vitesse limite TIV 170 km/h	-	-
Eu.SAT.439	Req	Speed indication (290 km/h)		45/0xAC	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.440	Req	no restriction		45/0xEF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.441	Req	no information		45/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.354	Head	2.4 Speed announcements													
Eu.SAT.355	Req	Speed announcement (10 km/h) to	CFL: SFI, SFVo, SFI/RI or SFAvI, SFAvVo SZ: SZ18 and SZ19	46/0x01	-	-	SZ19	Zs3v (1)	-	-	CBV (1)	see SBB Mapping Table	Ralentisseme nt / TIVD fermé	-	-
Eu.SAT.356	Req	Speed announcement (150 km/h)	CFL: SFI, SFVo, SFI/RI or SFAvI, SFAvVo SZ: SZ18 and SZ19	46/0x0F	-	-	SZ19	Zs3v(15)	-	-	CBV (15)	see SBB Mapping Table	Ralentisseme nt / TIVD fermé	-	-
Eu.SAT.369	Req	Speed announcement (160 km/h)		46/0x10	-	-	-	-	-	-	-	see SBB Mapping Table	TIVD fermé / Tableau P fermé	-	-
Eu.SAT.357	Req	Speed announcement dark	Commanded to dark	46/0xFF	-	-	dark	dark	-	-	dark	-	Dark signal / TIVD ouvert / Tableau P ouvert	-	-

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.358	Req	Not equipped	Signal is not equipped with a speed announcement	46/0xFF	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	-	Not equipped	-	Not equipped
Eu.SAT.442	Req	speed indication (0 km/h)		46/0x00	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.443	Req	Speed announcement (170 km/h) to		46/0xA0	-	-	-	-	-	-	-	see SBB Mapping Table	Tableau Indicateur de Vitesse limite à Distance TIVD d'annonce 170km/h	-	-
Eu.SAT.444	Req	Speed announcement (290 km/h)		46/0xAC	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.445	Req	no restriction		46/0xEF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.446	Req	no information		46/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.251	Head	2.5 Direction indicators													
Eu.SAT.252	Req	Direction indication (A) to		47/0x01	-	JI position (A)	-	Zs2 ("A")	-	-	-	-	Direction indicator n lamps / Tableau Lumineux de Direction / Tableau Banlieue / Répétiteur Lumineux d'itinéraire / Tableau indicateur de provenance	-	-
Eu.SAT.254	Req	Direction indication (Z)		47/0x1A	-	JI position (Z)	-	Zs2("Z")	-	-	-	-	Direction indicator n lamps / Tableau Lumineux de Direction / Tableau Banlieue / Répétiteur Lumineux d'itinéraire / Tableau indicateur de provenance	-	-
Eu.SAT.306	Req	Distance to go indication for ATP control	Special case for Finland: use coding for ATP control for distance to go indication	47/0x21 to 47/0x2F	ATP control	-	-	-	-	-	-	-	-	-	-
Eu.SAT.304	Req	Alphanumeric first character (pre-configured characters)	Indicates the route/destination related to the associated proceed aspect, two characters may be indicated	47/0x41 ... 47/0x5A	-	Route Indicator alphanumeric	-	-	-	-	-	-	-	-	-
Eu.SAT.256	Req	Start from: ... track	For group exit signals. It shows from which track is allowed to start driving	47/0x81 etc. with green lamps	-	-	SZ24	-	-	-	-	-	-	-	-
Eu.SAT.255	Req	Direction indication dark	Commanded to dark	47/0xFF	No ATP control	JI dark	dark	dark	-	-	-	-	Direction indicator dark / Tableau Lumineux de Direction - Dark / Tableau Banlieue - Dark / Répétiteur Lumineux d'Itinéraire - Dark / Tableau Indicateur de Provenance - Dark	-	-

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.353	Req	Not equipped	Signal is not equipped with a direction indicator	47/0xFF	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	-	Not equipped	-	Not equipped
Eu.SAT.447	Req	straight		47/0xA0	-	-	-	-	-	-	-	see SBB Mapping Table	Tableau Indicateur de Direction TID	-	-
Eu.SAT.448	Req	to left		47/0xA1	-	-	-	-	-	-	-	see SBB Mapping Table	Tableau Indicateur de Direction TID	-	-
Eu.SAT.449	Req	to right		47/0xA2	-	-	-	-	-	-	-	see SBB Mapping Table	Tableau Indicateur de Direction TID	-	-
Eu.SAT.450	Req	over diagonal		47/0xA3	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.451	Req	not in end position		47/0xA4	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.452	Req	direction+		47/0xA5	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.453	Req	direction -		47/0xA6	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.454	Req	both direction		47/0xA7	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.455	Req	no information		47/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.359	Head	<b>2.6 Direction announcements</b>													
Eu.SAT.360	Req	Direction announcement (A) to		48/0x01	-	PRI position (A)	-	Zs2v ("A")	-	-	-	-	Tableau Indicateur de Direction à Distance (Gauche/Droite) / Tableau Indicateur de Niveau à Distance (Haut/Bas) / Tableau Lumineux d'Annonce	-	-
Eu.SAT.361	Req	Direction announcement (Z)		48/0x1A	-	PRI position (Z)	-	Zs2v("Z")	-	-	-	-	Tableau Indicateur de Direction à Distance (Gauche/Droite) / Tableau Indicateur de Niveau à Distance (Haut/Bas) / Tableau Lumineux d'Annonce	-	-
Eu.SAT.364	Req	Alphanumeric second character (pre-configured characters)	Indicates the route/destination related to the associated proceed aspect, two characters may be indicated	48/0x41 ... 48/0x5A	-	Route Indicator alphanumeric	-	-	-	-	-	-	-	-	-
Eu.SAT.362	Req	Direction announcement dark	Commanded to dark	48/0xFF	-	PRI dark	-	dark	-	-	-	-	Tableau Indicateur de Direction à Distance - Dark / Tableau Indicateur de Niveau à Distance - Dark / Tableau Lumineux d'Annonce - Dark	-	-

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.363	Req	Not equipped	Signal is not equipped with a direction announcement	48/0xFF	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	Not equipped	-	Not equipped	-	Not equipped
Eu.SAT.456	Req	left		48/0xA0	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.457	Req	right		48/0xA1	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.458	Req	bottom		48/0xA2	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.459	Req	top		48/0xA3	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.460	Req	no direction		48/0xA4	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.461	Req	no information		48/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.462	Head	<b>2.7 Downgrade Information</b>													
Eu.SAT.466	Req	degraded		49/0x01	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.467	Req	degraded alt		49/0x02	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.468	Req	no information		49/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.463	Head	<b>2.8 Route Information</b>													
Eu.SAT.469	Req	no information		50/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.464	Head	<b>2.9 Intentionally dark</b>													
Eu.SAT.470	Req	set dark		51/0x01	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.471	Req	no information		51/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.465	Head	<b>2.10 National Bytes</b>													
Eu.SAT.472	Req	switch off main		52/0x01	-	-	-	-	-	-	-	see SBB Mapping Table	Coupez courant	-	-
Eu.SAT.473	Req	lower panto prepare		52/0x02	-	-	-	-	-	-	-	see SBB Mapping Table	Annonce Baissez panto	-	-
Eu.SAT.474	Req	lower panto execute		52/0x03	-	-	-	-	-	-	-	see SBB Mapping Table	Exécution Baissez panto	-	-
Eu.SAT.475	Req	lower panto dark		52/0x04	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.476	Req	lift panto		52/0x05	-	-	-	-	-	-	-	see SBB Mapping Table	Relevez panto / Fin de parcours à panto(s) baissé(s)	-	-
Eu.SAT.477	Req	overhead line no voltage		52/0x06	-	-	-	-	-	-	-	see SBB Mapping Table	Fin de caténaire	-	-
Eu.SAT.478	Req	overhead line set to «11», 11’000V, 16.7Hz		52/0x07	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-

Signal aspect table

ID	Type	Aspect name	Aspect meaning	Coding	FTIA_ 310900	NR_ 007000	SZ_ 007900	DB_ 008000	ÖBB_ 008100	CFL_ 008200	PR_ 008400	SBB_ 008500	SNCF_ 008700	TRV_ 007400	HZI_ 007800
Eu.SAT.479	Req	overhead line set to «15», 15'000V, 16.7Hz		52/0x08	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.480	Req	overhead line set to «25», 25'000V, 50Hz		52/0x09	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.481	Req	overhead line set to «3-», 3'000V, DC		52/0x0A	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.482	Req	overhead line set to «1-», 1'000V, DC		52/0x0B	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.483	Req	overhead line protection section		52/0x0C	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.484	Req	overhead line change of system		52/0x0D	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.485	Req	apply brakes		52/0x0E	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.492	Req	release brakes		52/0x0F	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.486	Req	activate magnetic brakes		52/0x10	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.487	Req	brake test passed		52/0x11	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.488	Req	normal gauge		52/0x12	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.489	Req	narrow gauge		52/0x13	-	-	-	-	-	-	-	see SBB Mapping Table	Pancarte de Gabarit réduit	-	-
Eu.SAT.490	Req	no gauge information		52/0x14	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-
Eu.SAT.491	Req	no information		52...60/0xFF	-	-	-	-	-	-	-	see SBB Mapping Table	-	-	-