

4.4 Visualization

4.4.1 TT0750: Status and Control Request (Navette)

Note: Navette means here the normal Navette device and the lift.

4.4.1.1 Purpose of This Telegram Type

With this telegram the Visu requests status information and performance values from the "Navette" and "Navette Lift" device.

4.4.1.2 Sending Direction

Visu -> Navette

4.4.1.3 Sending Time

See topic specific sub chapters.

4.4.1.4 **General**

Note: The TT0750 have the same length for all defined topics. Not relevant parts need to be set to 0.

4.4.1.4.1 Structure - General Part

No. Byte	Field content			Туре
0	Telegram sender ID		MSB	D
1			LSB	
2	Telegram receiver ID		MSB	D
3			LSB	
4	Telegram type	_	MSB	D
5			LSB	
6	Telegram sub type	_	MSB	D
7			LSB	
8	Version		MSB	D
9			LSB	
10	Topic	_	MSB	D
11			LSB	
12	Status request ID	MSW:	:MSB	D
13		MSW:	LSB	
14		LSW:	MSB	
15		LSW:	LSB	
16	Structure is described in the following details chapters			
17				
18				
:				
199				

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4.4.1.4.2 Description of the Fields – General Part

4.4.1.4.2.1 Overview

Field	Description
Telegram sender ID	241 Visu
Telegram receiver ID	11211124; 12211224 21212124; 22212224 31213124; 32213224 41214124; 42214224 51215124; 52215224 61216124; 62216224
	1081, 1082 1085, 1086 2081, 2082 2085, 2086 3081, 3082 3085, 3086 4081, 4082 4085, 4086 5081, 5082 5085, 5086 6081, 6082 6085, 6086
Telegram type	750 Status and control request Navette
Telegram sub type	see 4.4.1.4.2.2, "Telegram Sub Type"
Version	see 4.4.1.4.2.3, "Version"
Topic	see 4.4.1.4.2.4, "Field "Topic""
Status request ID	1 4,294,967,295 distinct status request identifier from Visu 0 Status reply generated by MFS without request

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4.4.1.4.2.2 Telegram Sub Type

The number shows the combination of the TT0750 parts (not used now)

	Value ¹³³	FiV	U	Description
Ī	0	≥0	n	Standard

4.4.1.4.2.3 Version

Version value could not be decoded by Visu. Visu will set version number fix to 0.

Value	U	Description	Remark	
0	У	standard	fixed to this value	

4.4.1.4.2.4 Field "Topic"

Switch for scope selection. Other values are not defined and will be ignored by the Navette.

Value ¹³³	FiV	U	Description
1	≥0	у	Status request see 4.4.1.5, "Topic = 1 (Navette Status Request)"
2	≥0	у	Control Settings see 4.4.1.6, "Topic = 2 (Navette Control Settings)"
5	≥0	у	Navette OHC values overwrite see 4.4.1.7, "Topic = 5 (Navette OHC values overwrite)"
7	≥0	у	Navette TD values overwrite see 4.4.1.8, "Topic = 7 (Navette TD values overwrite)"
others			not defined

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Note: The possible value range of this field is limited to 255, because the MSB of this field will not processed by the Visu driver. Background: The field TST and topic will be merged to one word, using the LSB of both fields.



4.4.1.5 Topic = 1 (Navette Status Request)

4.4.1.5.1 Sending Time

The Navette status can be requested from the Visu at any time. When starting the Visu process, this telegram will usually be sent to the Navette.

Note: The telegram structure is different to other telegrams because special needs of the Navette controller program by LARsys.

4.4.1.5.2 Structure (Topic = 1, Visu)

No. Byte	Field content	Туре
16	Status request flags 1	М
17	Status request flags 2	М

4.4.1.5.3 Description of the Fields (Topic = 1, Visu)

4.4.1.5.3.1 Overview (Topic = 1, Visu)

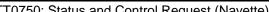
Field	Description
Status request flags 1	see 4.4.1.5.3.2, "Field "Status request flags 1" (Topic = 1, Visu)"
Status request flags 2	see 4.4.1.5.3.3, "Field "Status request flags 2" (Topic = 1, Visu)"

4.4.1.5.3.2 Field "Status request flags 1" (Topic = 1, Visu)

Bit	FiV	U	Description
0		n	
1	≥0	у	Basic Status request; Navette should answer with 1x TT0751, Topic 1 (see 4.4.2.6)
2	≥0	n	Navette Control Reply (1x TT0751, Topic 2 (see 4.4.2.7)) requested not useful
3	≥0	у	Warning and messages request; Navette should answer with 1 x TT0751, Topic 6 (see 4.4.2.11) 1 x TT0751, Topic 3 (see 4.4.2.8)
4	≥0	у	Error request; Navette should answer with 1 x TT0751, Topic 6 (see 4.4.2.11) 1 x TT0751, Topic 4 (see 4.4.2.9)
5	≥0	у	Operational hours counter (OHC); Navette should answer with 1 x TT0751, Topic 5 (see 4.4.2.10)
6	≥0	у	Variable Values for Messages, Warnings and Errors; Navette should answer with 1 x TT0751, Topic 6 (see 4.4.2.11)
7	≥0	у	Navette Travel Distance; Navette should answer with 1 x TT0751, Topic 7 (see 4.4.2.12)

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TT0750: Status and Control Request (Navette)

4.4.1.5.3.3 Field "Status request flags 2" (Topic = 1, Visu)

Bit	FiV	U	Description
0		n	
1		n	
2		n	
3	≥0	у	C-Desk Status; Navette should answer with 1 x TT0751, Topic 11 (see 4.4.2.12)
4	≥0	у	Detail Status; Navette should answer with 1 x TT0751, Topic 12 (see 4.4.2.14)
5		n	
6	_	n	
7		n	

Version: p-9020; 1945100H/V0.10/14.03.2019





4.4.1.6 Topic = 2 (Navette Control Settings)

4.4.1.6.1 Sending Time

Visu sent this telegram after a control button was pressed or a general information status changed. Navette Controller answers with a TT0751, topic 2 (see 4.4.2.7).

4.4.1.6.2 Structure (Topic = 2, Visu)

No. Byte		Field content	Туре
16	Visu Button	1 "auto on"	D
17		2 "auto off"	D
18		3 "error reset"	D
19		4 "Home Position"	D
20		5 "Reset OHC"	D
21		6 "Reset TD"	D
22		7	D
23		8	D
24		9	D
25		10	D
26		11	D
27		12	D
28		13	D
29		14	D
30		15	D
31		16	D
32	General	1 "Fire alert"	D
33	Information	2	D
34		3	D
35		4	D
36		5	D
37		6	D
38		7	D
39		8	D
40		9	D
41		10	D
42		11	D
43		12	D
44		13	D
45		14	D
46		15	D
47		16	D

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TT0750: Status and Control Request (Navette)

4.4.1.6.3 Description of the Fields (Topic = 2, Visu)

4.4.1.6.3.1 Overview (Topic = 2, Visu)

Field	Description
Visu Button	see 4.4.1.6.3.2
General Information	see 4.4.1.6.3.3

4.4.1.6.3.2 Field "Visu Button"

Value	FiV	U	Description
0	≥0	У	button not pressed
1	≥0	У	button pressed
others			not defined

4.4.1.6.3.3 Field "General Information"

Value	FiV	U	Description
0	≥0	У	status not active
1	≥0	У	status active
others			not defined

Version: p-9020; 1945100H/V0.10/14.03.2019





4.4.1.7 Topic = 5 (Navette OHC values overwrite)

4.4.1.7.1 Sending Time

The Visu will send this telegram automatically, if the received value of TT0751 topic 5 field "Operational total > OHC > total OHC" is smaller than the stored value by Visu for this device. This may happen after a controller exchange.

Navette / Navette lift controller will overwrite the OHC values (except the day counter) by receiving this telegram.

4.4.1.7.2 Structure (Topic = 5, Navette OHC values overwrite)

No. Byte	Field content				Туре
16	Operational	OHC	total OHC	MSW:MSB	D
17	Total		(Anlage gesamt)	MSW:LSB	
18	(not			LSW:MSB	
19	resettable)			LSW:LSB	
20			OHC automatic mode	MSW:MSB	D
21			(Anlage gesamt)	MSW:LSB	
22				LSW:MSB	
23				LSW:LSB	
24			OHC of the engine in X direction	MSW:MSB	D
25			(Motorbetriebsstunden in X-Richtung)	MSW:LSB	
26				LSW:MSB	
27				LSW:LSB	
28			OHC of the engine in Y direction	MSW:MSB	D
29			(Motorbetriebsstunden in Y-Richtung)	MSW:LSB	
30				LSW:MSB	
31				LSW:LSB	
32		Axis	Amount of drives (X direction)	MSW:MSB	D
33				MSW:LSB	
34			(Anzahl der Fahrten in X Richtung	LSW:MSB	
35			= Positionierungen)	LSW:LSB	
36			Amount of drives (Y direction)	MSW:MSB	D
37			(Annahl dan Fahatan in V Diahtan n	MSW:LSB	-
38 39			(Anzahl der Fahrten in Y Richtung	LSW:MSB	
		LHD1	= Positionierungen)	LSW:LSB MSW:MSB	D
40 41		LUDI	Amount of get cycles LHD 1	MSW:LSB	ן ט
42			with bars / gripper (Anzahl der Hole-Zyklen LAM1,	LSW:MSB	1
43			mit Zinken/Greifer)	LSW:LSB	-
44			Amount of put cycles LHD 1	MSW:MSB	D
45			with bars / gripper	MSW:LSB	1 0
46			(Anzahl der Bring-Zyklen LAM1,	LSW:MSB	-
47			mit Zinken/Greifer)	LSW:LSB	1
48			Amount of get cycles LHD 1	MSW:MSB	D
49			without bars / gripper (at CS)	MSW:LSB	
50			(Anzahl der Hole-Zyklen LAM1,	LSW:MSB	
51			ohne Zinken/Greifer; an FT)	LSW:LSB	
52			Amount of put cycles LHD 1	MSW:MSB	D
53			without bars / gripper (at CS)	MSW:LSB	1
54			(Anzahl der Bring-Zyklen LAM1,	LSW:MSB	1
55			ohne Zinken/Greifer; an FT)	LSW:LSB	1
56			Amount of total cycles LHD 1 (sum	MSW:MSB	D
57			of the 4 fields above)	MSW:LSB	1
58			Anzahl der Zyklen LAM1 (Summe	LSW:MSB	1
59			aus den 4 vorherigen Feldern)	LSW:LSB	1

Version: p-9020; 1945100H/V0.10/14.03.2019







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No. Byte	Field content				
60		LHD2	Amount of get cycles LHD 2	MSW:MSB	D
61			with bars / gripper	MSW:LSB	
62			(Anzahl der Hole-Zyklen LAM2,	LSW:MSB	
63			mit Zinken/Greifer)	LSW:LSB	_
64			Amount of put cycles LHD 2	MSW:MSB	D
65 66			with bars / gripper	MSW:LSB LSW:MSB	
67			(Anzahl der Bring-Zyklen LAM2, mit Zinken/Greifer)	LSW:LSB	
68			Amount of get cycles LHD 2	MSW:MSB	D
69			without bars / gripper (at CS)	MSW:LSB	
70			(Anzahl der Hole-Zyklen LAM2,	LSW:MSB	
71			ohne Zinken/Greifer; an FT)	LSW:LSB	
72			Amount of put cycles LHD 2	MSW:MSB	D
73			without bars / gripper (at CS)	MSW:LSB	
74			(Anzahl der Bring-Zyklen LAM2,	LSW:MSB	
75			ohne Zinken/Greifer; an FT)	LSW:LSB	
76			Amount of total cycles LHD 2 (sum	MSW:MSB	D
77			of the 4 fields above)	MSW:LSB	
78			Anzahl der Zyklen LAM2 (Summe	LSW:MSB	
79			aus den 4 vorherigen Feldern)	LSW:LSB	
80	Operational	ОНС	total OHC	MSW:MSB	D
81	Total		(Anlage gesamt)	MSW:LSB	
82	(resettable)		(" " ago good" ")	LSW:MSB	
83	(100011000)			LSW:LSB	
84			OHC automatic mode	MSW:MSB	D
85			(Anlage gesamt)	MSW:LSB	
86			,	LSW:MSB	
87				LSW:LSB	
88			OHC of the engine in X direction	MSW:MSB	D
89			(Motorbetriebsstunden in X-Richtung)	MSW:LSB	
90				LSW:MSB	
91				LSW:LSB	
92			OHC of the engine in Y direction	MSW:MSB	D
93			(Motorbetriebsstunden in Y-Richtung)	MSW:LSB	
94				LSW:MSB	
95				LSW:LSB	
96		Axis	Amount of drives (X direction)	MSW:MSB	D
97			/A = 1	MSW:LSB	
98			(Anzahl der Fahrten in X Richtung	LSW:MSB	
99			= Positionierungen)	LSW:LSB	_
100			Amount of drives (Y direction)	MSW:MSB	D
101			(Annahl day Fabritan in V Diahtung	MSW:LSB	
102			(Anzahl der Fahrten in Y Richtung	LSW:MSB	
103 104	1	LHD1	= Positionierungen) Amount of get cycles LHD 1	LSW:LSB MSW:MSB	D
104			with bars / gripper	MSW:LSB	ט
106	1		(Anzahl der Hole-Zyklen LAM1,	LSW:MSB	
107	1		mit Zinken/Greifer)	LSW:LSB	
108	1		Amount of put cycles LHD 1	MSW:MSB	D
109	1		with bars / gripper	MSW:LSB	
110	1		(Anzahl der Bring-Zyklen LAM1,	LSW:MSB	
111	1		mit Zinken/Greifer)	LSW:LSB	
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Version: p-9020; 1945100H/V0.10/14.03.2019





No. Byte	Field content				Туре
112			Amount of get cycles LHD 1	MSW:MSB	D
113			without bars / gripper (at CS)	MSW:LSB	
114			(Anzahl der Hole-Zyklen LAM1,	LSW:MSB	
115			ohne Zinken/Greifer; an FT)	LSW:LSB	
116			Amount of put cycles LHD 1	MSW:MSB	D
117]		without bars / gripper (at CS)	MSW:LSB	
118]		(Anzahl der Bring-Zyklen LAM1,	LSW:MSB	
119]		ohne Zinken/Greifer; an FT)	LSW:LSB	
120]		Amount of total cycles LHD 1 (sum	MSW:MSB	D
121			of the 4 fields above)	MSW:LSB	
122]		Anzahl der Zyklen LAM1 (Summe	LSW:MSB	
123]		aus den 4 vorherigen Feldern)	LSW:LSB	
124		LHD2	Amount of get cycles LHD 2	MSW:MSB	D
125			with bars / gripper	MSW:LSB	
126			(Anzahl der Hole-Zyklen LAM2,	LSW:MSB	
127			mit Zinken/Greifer)	LSW:LSB	
128			Amount of put cycles LHD 2	MSW:MSB	D
129			with bars / gripper	MSW:LSB	
130			(Anzahl der Bring-Zyklen LAM2,	LSW:MSB	
131			mit Zinken/Greifer)	LSW:LSB	
132			Amount of get cycles LHD 2	MSW:MSB	D
133			without bars / gripper (at CS)	MSW:LSB	
134			(Anzahl der Hole-Zyklen LAM2,	LSW:MSB	
135			ohne Zinken/Greifer; an FT)	LSW:LSB	
136			Amount of put cycles LHD 2	MSW:MSB	D
137]		without bars / gripper (at CS)	MSW:LSB	
138			(Anzahl der Bring-Zyklen LAM2,	LSW:MSB	
139]		ohne Zinken/Greifer; an FT)	LSW:LSB	
140			Amount of total cycles LHD 2 (sum	MSW:MSB	D
141]		of the 4 fields above)	MSW:LSB	
142			Anzahl der Zyklen LAM2 (Summe	LSW:MSB	
143			aus den 4 vorherigen Feldern)	LSW:LSB	
144	Day counter		Amount of total cycles LHD 1	MSW:MSB	D
145	(will be			MSW:LSB	
146	set to 0		Anzahl der Zyklen LAM1	LSW:MSB	
147	by Controller			LSW:LSB	
148	e.g. mid		Amount of total cycles LHD 2	MSW:MSB	D
149	night)			MSW:LSB	
150	(not		Anzahl der Zyklen LAM 2	LSW:MSB	
151	resettable)			LSW:LSB	

Note: SOC doesn't overwrite the "Day counter" values with values from Visu.

4.4.1.7.3 **Description of the Fields (Topic = 5, Navette OHC values overwrite)**

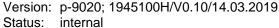
4.4.1.7.3.1 Overview (Topic = 5, Navette OHC values overwrite)

Unit for all time values: hours

Field description see 4.4.2.10.4.1, "Overview (Topic = 5, Navette OHC)"

Plausibility check in Visu: Don't compare day counter fields!

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4.4.1.8 Topic = 7 (Navette TD values overwrite)

4.4.1.8.1 Sending Time

The Visu will send this telegram automatically, if the received value of TT0751 topic 7 field "Operational total > Distances Total > X-Axis" is smaller than the stored value by Visu for this device. This may happen after a controller exchange.

Navette / Navette lift controller will overwrite the distance values by receiving this telegram.

4.4.1.8.2 Structure (Topic = 7, Navette TD values overwrite)

No. Byte	Field content			Туре	
16	Operational	Distances	X-Axis	MSW:MSB	D
17	Total	Total		MSW:LSB	
18	(not			LSW:MSB	
19	resettable)			LSW:LSB	
20			Y-Axis	MSW:MSB	D
21				MSW:LSB	
22				LSW:MSB	
23				LSW:LSB	
24	Operational	Distances	X-Axis	MSW:MSB	D
25	Total	Total		MSW:LSB	
26	(resettable)			LSW:MSB	
27				LSW:LSB	
28			Y-Axis	MSW:MSB	D
29				MSW:LSB	
30				LSW:MSB	
31				LSW:LSB	

4.4.1.8.3 Description of the Fields (Topic = 7, Navette TD values overwrite)

4.4.1.8.3.1 Overview (Topic = 7, Navette TD values overwrite)

Unit for all time values: meters

Field description see 4.4.2.12.4.1, "Overview (Topic = 7, Navette TD)"

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