

ERTMS/ETCS – Class 1

FFFIS STM Test Specification
Traceability of test cases with
Specific Transmission Module FFFIS

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1. MODIFICATION HISTORY

Issue Number Date	Section Number	Modification / Description	Author
0.0.1 2005-01-17	All	Creation of the document.	A. Schoevaerts Alstom
0.0.2 2005-01-24	5	New export from Doors.	A. Schoevaerts Alstom
0.0.3 2005-01-27	4	Clarifications in Chapter 4.	A. Schoevaerts Alstom
0.1.0 2005-01-28	5	Last export from Doors	A. Schoevaerts Alstom
1.0.0 13.10.2005		Editorial changes for delivery	R. Ramos Invensys Rail

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3. REFERENCES

3.1.1.1 /SUBSET-035/; Specific Transmission Module FFFIS, issue 2.1.1

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4. SCOPE

This document is part of the FFFIS STM Test Specification (SUBSET-74).

The scope of this document is to provide the traceability between the testable requirements, which are not related to degraded situations, specified in the Specific Transmission Module FFFIS (/SUBSET-035/) and the FFFIS STM Test Specification .

Chapter 5 of this document includes the traceability table. The traceability table includes the following columns:

- ? Paragraph number : This includes the requirement number which is assigned by DOORS based on the SUBSET-035 numbering.
- ? FFFIS STM Requirements : This includes the requirements extracted from SUBSET-035.
- ? Equipment : This includes the equipment (ETCS, STM National, STM European) which needs to fulfil the associated requirements.
- ? Requirement : This includes the information whether the statement in SUBSET-035 is a requirement or not.
- ? Testable : This includes the information whether a requirement in SUBSET-035 is testable at the standard interfaces or not.
- ? Degraded : This includes the information whether a requirement in SUBSET-035 is related to a degraded situation or not.
- ? Functional Identity : This includes the assignment of a requirement to functional identities specified in the FFFIS STM test specification.
- ? Tested in Test Cases : This includes the information in which test case(s) the requirement is tested.
- ? Comment : This includes a comment when necessary.

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5. TRACEABILITY TABLE

Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
0-1.0-1.0-1	ERTMS/ETCS – Class 1		True	False	False	Unknown		To keep the title of the document within list
0-1.0-1.0-2	0-1.0-1.0-2		False	False	False	Unknown		
0-1.0-2.0-1	Specific Transmission Module FFFIS		True	False	False	Unknown		To keep the title of the document within list
0-1.0-2.0-2	0-1.0-2.0-2		False	False	False	Unknown		
0-1.0-3.0-1	REF :		False	False	False	Unknown		
0-1.0-3.0-2	0-1.0-3.0-2		False	False	False	Unknown		
0-1.0-3.0-3	SUBSET-035		True	False	False	Unknown		To keep the title of the document within list
0-1.0-4.0-1	ISSUE :		False	False	False	Unknown		
0-1.0-4.0-2	0-1.0-4.0-2		False	False	False	Unknown		
0-1.0-4.0-3	2.1.1		True	False	False	Unknown		To keep the issue of the document within list
0-1.0-5.0-1	DATE :		False	False	False	Unknown		
0-1.0-5.0-2	0-1.0-5.0-2		False	False	False	Unknown		
0-1.0-5.0-3	2003-07-24		True	False	False	Unknown		To keep the date of the document within list
0-2.0-1.0-1	Company		False	False	False	Unknown		
0-2.0-1.0-2	Technical Approval		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
0-2.0-1.0-3	Management approval		False	False	False	Unknown		
0-2.0-2.0-1	ALCATEL		False	False	False	Unknown		
0-2.0-2.0-2	0-2.0-2.0-2		False	False	False	Unknown		
0-2.0-2.0-3	0-2.0-2.0-3		False	False	False	Unknown		
0-2.0-3.0-1	ALSTOM		False	False	False	Unknown		
0-2.0-3.0-2	0-2.0-3.0-2		False	False	False	Unknown		
0-2.0-3.0-3	0-2.0-3.0-3		False	False	False	Unknown		
0-2.0-4.0-1	ANSALDO SIGNAL		False	False	False	Unknown		
0-2.0-4.0-2	0-2.0-4.0-2		False	False	False	Unknown		
0-2.0-4.0-3	0-2.0-4.0-3		False	False	False	Unknown		
0-2.0-5.0-1	BOMBARDIER		False	False	False	Unknown		
0-2.0-5.0-2	0-2.0-5.0-2		False	False	False	Unknown		
0-2.0-5.0-3	0-2.0-5.0-3		False	False	False	Unknown		
0-2.0-6.0-1	INVENSYS RAIL		False	False	False	Unknown		
0-2.0-6.0-2	0-2.0-6.0-2		False	False	False	Unknown		
0-2.0-6.0-3	0-2.0-6.0-3		False	False	False	Unknown		
0-2.0-7.0-1	SIEMENS		False	False	False	Unknown		
0-2.0-7.0-2	0-2.0-7.0-2		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
0-2.0-7.0-3	0-2.0-7.0-3		False	False	False	Unknown		
1	1 Modification History		False	False	False	Unknown		
1.0-1.0-1.0-1	Issue NumberDate		False	False	False	Unknown		
1.0-1.0-1.0-2	Section Number		False	False	False	Unknown		
1.0-1.0-1.0-3	Modification / Description		False	False	False	Unknown		
1.0-1.0-1.0-4	Author		False	False	False	Unknown		
1.0-1.0-2.0-1	1.0.014-01-99		False	False	False	Unknown		
1.0-1.0-2.0-2	1.0-1.0-2.0-2		False	False	False	Unknown		
1.0-1.0-2.0-3	Release version		False	False	False	Unknown		
1.0-1.0-2.0-4	HE		False	False	False	Unknown		
1.0-1.0-3.0-1	1.0.1		False	False	False	Unknown		
1.0-1.0-3.0-2	1.0-1.0-3.0-2		False	False	False	Unknown		
1.0-1.0-3.0-3	Updating		False	False	False	Unknown		
1.0-1.0-3.0-4	J. Näsström		False	False	False	Unknown		
1.0-1.0-4.0-1	1.0.2 21-02-00		False	False	False	Unknown		
1.0-1.0-4.0-2	Cenelec textual review up to chapter 7. Unisig input for bus chapter, Application layer outlined, Level Transitions not updated.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-4.0-3	Updated according to CENELEC review 000208-09 and Unisig meeting 16-02-00 to 17-02-00		False	False	False	Unknown		
1.0-1.0-4.0-4	J. Näsström		False	False	False	Unknown		
1.0-1.0-5.0-1	1.1.0 24-02-00		False	False	False	Unknown		
1.0-1.0-5.0-2	1.0-1.0-5.0-2		False	False	False	Unknown		
1.0-1.0-5.0-3	Preliminary release for ECSAG.		False	False	False	Unknown		
1.0-1.0-5.0-4	J. Näsström		False	False	False	Unknown		
1.0-1.0-6.0-1	1.1.1 25-02-00		False	False	False	Unknown		
1.0-1.0-6.0-2	1.0-1.0-6.0-2		False	False	False	Unknown		
1.0-1.0-6.0-3	Editorial updates.		False	False	False	Unknown		
1.0-1.0-6.0-4	J. Näsström		False	False	False	Unknown		
1.0-1.0-7.0-1	1.1.1 20-03-00		False	False	False	Unknown		
1.0-1.0-7.0-2	Editorial changes. Pictures in ch 5 updated. Normative and non-normative parts better separated.		False	False	False	Unknown		
1.0-1.0-7.0-3	Updated according to ECSAG review 29-02-00 and Cenelec WGA9E review 080300-090300. Removed "ERTMS" in favour of "ETCS". Requirements reformulated into "shall", and made more precise. Brake Interface separated from Train Interface in Bus chapter.		False	False	False	Unknown		
1.0-1.0-7.0-4	J. Näsström		False	False	False	Unknown		
1.0-1.0-8.0-1	1.1.2		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-8.0-2	Bus chapter updated with physical media. Level Transitions added, with two annexes. Added annex on diagnostic recorder.		False	False	False	Unknown		
1.0-1.0-8.0-3	Updated according to decisions and review comments of UNISIG STM meeting 000222-000223.		False	False	False	Unknown		
1.0-1.0-8.0-4	J. Näsström		False	False	False	Unknown		
1.0-1.0-9.0-1	2.0.0 30-03-2000		False	False	False	Unknown		
1.0-1.0-9.0-2	chapter 7.5.3.4: maximum of 10 indicators. chapter 7.5.4.3: maximum of 5 buttons.		False	False	False	Unknown		
1.0-1.0-9.0-3	Final Issue to ECSAG		False	False	False	Unknown		
1.0-1.0-9.0-4	D. Degavre		False	False	False	Unknown		
1.0-1.0-10.0-1	A.0.1 26-04-2002		False	False	False	Unknown		
1.0-1.0-10.0-2	Header and Footer		False	False	False	Unknown		
1.0-1.0-10.0-3	Agreed changes during WP Meeting in Charleroi		False	False	False	Unknown		
1.0-1.0-10.0-4	U. Dräger		False	False	False	Unknown		
1.0-1.0-11.0-1	A.0.3 24-05-2002		False	False	False	Unknown		
1.0-1.0-11.0-2	All		False	False	False	Unknown		
1.0-1.0-11.0-3	Online changes during the WP meeting in Paris		False	False	False	Unknown		
1.0-1.0-11.0-4	J-Y Riou		False	False	False	Unknown		
1.0-1.0-12.0-1	A.0.4 19.06.2002		False	False	False	Unknown		
1.0-1.0-	Chapter 1-10 for text, 15 only picture		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-2								
1.0-1.0-12.0-3	Including of eliminated Pictures within chapter 15 and some of the agreed changes according to the list of comments for Subset 035 issue C.0.2. The included changes are marked within C.0.2.M. No text changes at chapter 13 and following.		False	False	False	Unknown		
1.0-1.0-12.0-4	U. Dräger		False	False	False	Unknown		
1.0-1.0-13.0-1	A.0.5 2002-07-11		False	False	False	Unknown		
1.0-1.0-13.0-2	All		False	False	False	Unknown		
1.0-1.0-13.0-3	Online changes during the WP meeting in Brussels		False	False	False	Unknown		
1.0-1.0-13.0-4	Peter Lührs		False	False	False	Unknown		
1.0-1.0-14.0-1	A.0.6 2002-07-30		False	False	False	Unknown		
1.0-1.0-14.0-2	All		False	False	False	Unknown		
1.0-1.0-14.0-3	Online changes during the WP meeting in Stuttgart		False	False	False	Unknown		
1.0-1.0-14.0-4	U. Däger		False	False	False	Unknown		
1.0-1.0-15.0-1	A.0.7 2002-08-12		False	False	False	Unknown		
1.0-1.0-15.0-2	Chapter 7.5.3		False	False	False	Unknown		
1.0-1.0-15.0-3	Home work according to the modifications for 7.4.2		False	False	False	Unknown		
1.0-1.0-15.0-4	U. Dräger		False	False	False	Unknown		
1.0-1.0-16.0-1	A.0.8 2002-08-21		False	False	False	Unknown		
1.0-1.0-	Continue of chapter 7		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
16.0-2								
1.0-1.0-16.0-3	Online changes during the WP meeting in Brussels		False	False	False	Unknown		
1.0-1.0-16.0-4	U. Dräger		False	False	False	Unknown		
1.0-1.0-17.0-1	A.0.9 2002-10-23		False	False	False	Unknown		
1.0-1.0-17.0-2	Chapter 9, 12 and 13		False	False	False	Unknown		
1.0-1.0-17.0-3	Online changes during the WP meeting in Brussels		False	False	False	Unknown		
1.0-1.0-17.0-4	U. Dräger		False	False	False	Unknown		
1.0-1.0-18.0-1	A.0.10 2002-11-18		False	False	False	Unknown		
1.0-1.0-18.0-2	Chapter 4.1.1, 5.1.1.2, 5.1.2, 5.1.3, 5.2.3, 5.2.5, 5.2.6, 7, 8, 10 16,17,18, 19, 20, 21		False	False	False	Unknown		
1.0-1.0-18.0-3	Mainly insertion of direct access for odometer and brake, new issue of chapter 7, 8, and 10, and new chapters for data entry (16) and STM test procedure (17)		False	False	False	Unknown		
1.0-1.0-18.0-4	U. Dräger		False	False	False	Unknown		
1.0-1.0-19.0-1	A.0.11 2002-11-21		False	False	False	Unknown		
1.0-1.0-19.0-2	Basis for this issue was the clean draft issue of A.0.10 Chapter 4.1.1, 5.2.3, 5.2.5, 5.2.6, 8, 10		False	False	False	Unknown		
1.0-1.0-19.0-3	Online changes during the WP meeting in Stuttgart and the inclusion of the modifications made in the separately reviewed chapters 8 and 10		False	False	False	Unknown		
1.0-1.0-19.0-4	U. Dräger		False	False	False	Unknown		
1.0-1.0-	A.0.12		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
20.0-1	2002-12-04							
1.0-1.0-20.0-2	1.0-1.0-20.0-2		False	False	False	Unknown		
1.0-1.0-20.0-3	Online changes during the WP meeting in Braunschweig		False	False	False	Unknown		
1.0-1.0-20.0-4	P. Lührs(Siemens)		False	False	False	Unknown		
1.0-1.0-21.0-1	2002-12-18		False	False	False	Unknown		
1.0-1.0-21.0-2	1.0-1.0-21.0-2		False	False	False	Unknown		
1.0-1.0-21.0-3	Online changes during the WP meeting in Brussels		False	False	False	Unknown		
1.0-1.0-21.0-4	R. Ramos(Invensys)		False	False	False	Unknown		
1.0-1.0-22.0-1	2003-01-13		False	False	False	Unknown		
1.0-1.0-22.0-2	1.0-1.0-22.0-2		False	False	False	Unknown		
1.0-1.0-22.0-3	Online changes during the WP meeting in Paris		False	False	False	Unknown		
1.0-1.0-22.0-4	R. Ramos(Invensys)		False	False	False	Unknown		
1.0-1.0-23.0-1	2003-01-28		False	False	False	Unknown		
1.0-1.0-23.0-2	1.0-1.0-23.0-2		False	False	False	Unknown		
1.0-1.0-23.0-3	Online changes during the WP meeting in Brussels		False	False	False	Unknown		
1.0-1.0-23.0-4	R. Ramos (Invensys)		False	False	False	Unknown		
1.0-1.0-24.0-1	A.0.162003-02-03		False	False	False	Unknown		
1.0-1.0-24.0-2	1.0-1.0-24.0-2		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-24.0-3	Requirements of SUBSET-058 included here (agreed comments). Test Procedure updated.		False	False	False	Unknown		
1.0-1.0-24.0-4	P. Lührs(Siemens)		False	False	False	Unknown		
1.0-1.0-25.0-1	A.0.17 2003-02-11		False	False	False	Unknown		
1.0-1.0-25.0-2	1.0-1.0-25.0-2		False	False	False	Unknown		
1.0-1.0-25.0-3	Modified after STM review meeting in Stuttgart		False	False	False	Unknown		
1.0-1.0-25.0-4	R. Ramos (Invensys Rail)		False	False	False	Unknown		
1.0-1.0-26.0-1	A.0.18 2003-02-18		False	False	False	Unknown		
1.0-1.0-26.0-2	Chapter 5,2.5; chapter 14 and 15; chapter 16; chapter 17; chapter 21; chapter 22		False	False	False	Unknown		
1.0-1.0-26.0-3	Modified as homework according to the agreements at the STM meeting in Stuttgart		False	False	False	Unknown		
1.0-1.0-26.0-4	U. Dräger (Alcatel)		False	False	False	Unknown		
1.0-1.0-27.0-1	A.0.19 2003-02-25		False	False	False	Unknown		
1.0-1.0-27.0-2	1.0-1.0-27.0-2		False	False	False	Unknown		
1.0-1.0-27.0-3	Online changes during the WP meeting in Madrid		False	False	False	Unknown		
1.0-1.0-27.0-4	P. Lührs(Siemens)R. Ramos(Invensys Rail)		False	False	False	Unknown		
1.0-1.0-28.0-1	A.0.20 2003-03-11		False	False	False	Unknown		
1.0-1.0-28.0-2	1.0-1.0-28.0-2		False	False	False	Unknown		
1.0-1.0-28.0-3	Online changes during the WP meeting in Brussels		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-28.0-4	P. Lührs(Siemens)		False	False	False	Unknown		
1.0-1.0-29.0-1	A.0.21 2003-03-26		False	False	False	Unknown		
1.0-1.0-29.0-2	1.0-1.0-29.0-2		False	False	False	Unknown		
1.0-1.0-29.0-3	Online changes during the WP meeting in Braunschweig		False	False	False	Unknown		
1.0-1.0-29.0-4	P. Lührs(Siemens)		False	False	False	Unknown		
1.0-1.0-30.0-1	A.0.22 2003-04-08		False	False	False	Unknown		
1.0-1.0-30.0-2	1.0-1.0-30.0-2		False	False	False	Unknown		
1.0-1.0-30.0-3	Online changes during the WP meeting in Stockholm		False	False	False	Unknown		
1.0-1.0-30.0-4	P. Lührs(Siemens)		False	False	False	Unknown		
1.0-1.0-31.0-1	A.0.23 2003-04-16		False	False	False	Unknown		
1.0-1.0-31.0-2	Chapter 12 deleted (part of Subset 058), chapter 13 Vigilance deleted; chapter 19 deleted and content included in chapter 8; chapter 15 deleted; chapter 18 replaced by proposal "B"; Including "Level Transition Requirements" in chapter 5, 7 and 8,		False	False	False	Unknown		
1.0-1.0-31.0-3	Homework changes as agreed during the WP meeting in Stockholm		False	False	False	Unknown		
1.0-1.0-31.0-4	U. Dräger(Alcatel)		False	False	False	Unknown		
1.0-1.0-32.0-1	A.0.24 2003-05-06		False	False	False	Unknown		
1.0-1.0-32.0-2	Including "Level Transition Requirements" version 007 in chapter 5, 7 and 8, including of "Data Entry" according proposal version 1.6 in chapter 14		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-32.0-3	Homework changes as agreed during the WP meeting in Stuttgart		False	False	False	Unknown		
1.0-1.0-32.0-4	U. Dräger(Alcatel)		False	False	False	Unknown		
1.0-1.0-33.0-1	A.0.252003-05-09		False	False	False	Unknown		
1.0-1.0-33.0-2	Chapter 8.5.1.3		False	False	False	Unknown		
1.0-1.0-33.0-3	1.0-1.0-33.0-3		False	False	False	Unknown		
1.0-1.0-33.0-4	U. DrägerAlcatel		False	False	False	Unknown		
1.0-1.0-34.0-1	A.0.262003-05-26		False	False	False	Unknown		
1.0-1.0-34.0-2	Content of Odometry chapter removed, Transmission of national air gap information deleted		False	False	False	Unknown		
1.0-1.0-34.0-3	Version for internal WP review		False	False	False	Unknown		
1.0-1.0-34.0-4	U. DrägerAlcatel		False	False	False	Unknown		
1.0-1.0-35.0-1	A.0.272003-06-11		False	False	False	Unknown		
1.0-1.0-35.0-2	New 5.3.14 Others		False	False	False	Unknown		
1.0-1.0-35.0-3	Online changes during the WP meeting in Brussels: Review process for version A.0.26		False	False	False	Unknown		
1.0-1.0-35.0-4	U. DrägerAlcatel P. LührsSiemens		False	False	False	Unknown		
1.0-1.0-36.0-1	A.0.282003-06-19		False	False	False	Unknown		
1.0-1.0-36.0-2	1.0-1.0-36.0-2		False	False	False	Unknown		
1.0-1.0-36.0-3	Homework changes as agreed during the WP meeting in Brussels (2003-06-11)		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-36.0-4	P. Lührs(Siemens)		False	False	False	Unknown		
1.0-1.0-37.0-1	A.0.292003-06-23		False	False	False	Unknown		
1.0-1.0-37.0-2	1.0-1.0-37.0-2		False	False	False	Unknown		
1.0-1.0-37.0-3	Online changes as agreed during the WP meeting in Stockholm		False	False	False	Unknown		
1.0-1.0-37.0-4	R. Ramos(Invensys Rail)		False	False	False	Unknown		
1.0-1.0-38.0-1	A.0.302003-06-26		False	False	False	Unknown		
1.0-1.0-38.0-2	16.2, 16.3, 16.8 (Annex B)		False	False	False	Unknown		
1.0-1.0-38.0-3	Figures updated as agreed during the WP meeting in Stockholm (2003-06-25)		False	False	False	Unknown		
1.0-1.0-38.0-4	P. Lührs(Siemens)		False	False	False	Unknown		
1.0-1.0-39.0-1	A.0.312003-07-02		False	False	False	Unknown		
1.0-1.0-39.0-2	1.0-1.0-39.0-2		False	False	False	Unknown		
1.0-1.0-39.0-3	Online changes as agreed during the WP meeting in Madrid		False	False	False	Unknown		
1.0-1.0-39.0-4	M. Deladrière(Alstom)		False	False	False	Unknown		
1.0-1.0-40.0-1	A.0.32 2003-07-14		False	False	False	Unknown		
1.0-1.0-40.0-2	1.0-1.0-40.0-2		False	False	False	Unknown		
1.0-1.0-40.0-3	Preparation for the final delivery issue Chapter 10 included: Updated after pending comments from Brussels meeting. Also includes solution on the different needs for non-statistical and statistical. ETCS shall send either non-stochastical only, or both statistical and		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	non-statistical							
1.0-1.0-40.0-4	U. Dräger Alcatel		False	False	False	Unknown		
1.0-1.0-41.0-1	2.1.02003-07-15		False	False	False	Unknown		
1.0-1.0-41.0-2	1.0-1.0-41.0-2		False	False	False	Unknown		
1.0-1.0-41.0-3	Updated during the WP meeting in Brussels (2003-07-15)		False	False	False	Unknown		
1.0-1.0-41.0-4	P. Lührs(Siemens)		False	False	False	Unknown		
1.0-1.0-42.0-1	2.1.1 2003-07-24		False	False	False	Unknown		
1.0-1.0-42.0-2	3.1.1.9, 5.1.1.2, 5.1.2, 5.1.3, 5.2.8.2, 6.1.3, 7.3.1.4.2, 7.3.1.5.2, 7.3.1.6.4, 7.3.1.7.5, 7.4.1.1.5, 7.4.1.2.5, 7.4.1.3.5, 7.4.1.3.6, 10.3.1.12, 10.6.5.6, 10.6.5.15.4, 10.6.5.16, 12.1.2.1.1., 13.1.1.2, 15.2.1.3, 17.4.3.18, 17.4.3.19, 17.4.3.20, 17.7.2.16, 17.7.2.17, 17.7.2.18.		False	False	False	Unknown		
1.0-1.0-42.0-3	Updated according to the meeting between the FFFIS STM WP and the EEIG		False	False	False	Unknown		
1.0-1.0-42.0-4	R. Ramos (Invensys Rail)		False	False	False	Unknown		
1.0-2	Every Time the Version Number of this document is changed the Compatibility Number shall be updated, see chapter 15.2.		False	False	False	Unknown		Requirement for the author of the document
2	2 Table of Contents		False	False	False	Unknown		
2.0-1	<u>1. Modification History</u> 2 <u>2. Table of Contents</u> 3 <u>3. General</u> 3 <u>3.1 References</u> 3 <u>3.2 Scope</u> 3 <u>4. Introduction</u> 3 <u>4.1 Definitions</u> 3 <u>4.1.1 STM</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	4.1.2 <u>STM of European type</u> 3							
	4.1.3 <u>STM of National type</u> 3							
	4.1.4 <u>Target System mode</u> 3							
	4.1.5 <u>Group of STMs</u> 3							
	4.2 <u>Other technical requirements</u> 3							
	4.3 <u>STM Isolation</u> 3							
	5. <u>Principles</u> 3							
	5.1 <u>Functional architecture</u> 3							
	5.1.2 <u>European STM</u> 3							
	5.1.3 <u>National STM</u> 3							
	5.2 <u>Data and ERTMS/ETCS functions for both European and National modes</u> 3							
	5.2.2 <u>Reference time</u> 3							
	5.2.3 <u>Odometry via ETCS and optional direct sensor access from STM</u> 3							
	5.2.4 <u>Train Interface</u> 3							
	5.2.5 <u>Brake Interface (BIU) via ETCS and optional direct access from STM</u> 3							
	5.2.6 <u>Juridical Recorder (JRU)</u> 3							
	5.2.7 <u>Diagnostic Recorder (DRU)</u> 3							
	5.2.8 <u>STM control function</u> 3							
	5.2.9 <u>DMI</u> 3							
	5.2.10 <u>ETCS On-board Functions available for STMs</u> 3							
	5.2.11 <u>ETCS data and Data Entry</u> 3							
	5.2.12 <u>Specific STM data and Data Entry</u> 3							
	5.2.13 <u>Transmission of ETCS air gap messages for STMs</u> 3							
	5.2.14 <u>Supervision (for European STM only)</u> 3							
	6. <u>Technical Modes of ETCS</u> 3							
	6.1.2 <u>Sleeping and Non-leading modes</u> 3							
	6.1.3 <u>Stand By mode</u> 3							
	7. <u>STM MANAGER SYSTEM (SMS)</u> 3							
	7.1 <u>Scope</u> 3							
	7.2 <u>General principles</u> 3							

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	<u>7.3 Requirements on STM</u> 3 <u>7.3.1 STM states definition</u> 3 <u>7.3.2 STM States transitions table</u> 3 <u>7.3.3 Requirements linked to STM States transitions</u> 3 <u>7.3.4 General STM requirements</u> 3 <u>7.4 Requirements on ETCS On-board</u> 3 <u>7.4.1 STM control function - "STM MANAGER SYSTEM" part</u> 3 <u>7.4.2 Other ETCS requirements</u> 3 <u>7.5 Engineering Requirements for the Level Transition</u> 3 <u>7.6 General requirements linked to the opening of connection between STM and ETCS On-board</u> 3 <u>7.6.1 Opening of the connection</u> 3 <u>7.6.2 Check of version</u> 3 <u>7.6.3 Closing of the connection</u> 3 <u>7.6.4 Connection Sequence Charts.</u> 3 <u>8. Odometry</u> 3 <u>8.1 General</u> 3 <u>8.2 Speed</u> 3 <u>8.3 Distance</u> 3 <u>8.3.1 General</u> 3 <u>8.3.2 Nominal distance</u> 3 <u>8.3.3 Stochastical and non-stochastical confidence intervals</u> 3 <u>8.4 Distance Parameters</u> 3 <u>8.4.1 Nominal distance</u> 3 <u>8.4.2 Resolution part</u> 3 <u>8.4.3 Accumulative part (non-stochastic model)</u> 3 <u>8.4.4 Stochastic part (ETCS option)</u> 3 <u>8.5 STM Distance</u> 3 <u>8.5.1 General</u> 3 <u>8.5.2 Non-stochastic</u> 3 <u>8.5.3 Stochastic</u> 3 <u>8.5.4 Data representation</u> 3							

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	<p>8.6 <u>Direction</u> 3</p> <p>8.7 <u>Configuration information</u> 3</p> <p>8.8 <u>Application notes on Stochastic odometry (non-normative and not reviewed)</u> 3</p> <p>8.8.1 <u>Introduction</u> 3</p> <p>8.8.2 <u>Stochastic Odometer models</u> 3</p> <p>8.8.3 <u>Confidence intervals with stochastic part</u> 3</p> <p>9. <u>Supervision function (European mode only) TBD</u> 3</p> <p>9.1.2 <u>STM Profile data</u> 3</p> <p>9.1.3 <u>EOA Overpass</u> 3</p> <p>9.1.4 <u>Reference Locations</u> 3</p> <p>10. <u>DMI, Driver Machine Interface</u> 3</p> <p>10.1 <u>Scope</u> 3</p> <p>10.2 <u>DMI from the hardware aspect</u> 3</p> <p>10.2.2 <u>The ETCS On-board DMI platform</u> 3</p> <p>10.2.3 <u>The separate STM DMI platform</u> 3</p> <p>10.3 <u>DMI from the functional aspect</u> 3</p> <p>10.4 <u>DMI from the layout aspect</u> 3</p> <p>10.4.2 <u>Interoperable DMI</u> 3</p> <p>10.4.3 <u>Customised DMI</u> 3</p> <p>10.4.4 <u>Unified DMI</u> 3</p> <p>10.5 <u>General requirements regarding DMI function</u> 3</p> <p>10.5.1 <u>ETCS On-board and STM requirements regarding DMI function</u> 3</p> <p>10.5.2 <u>ETCS On-board requirements regarding DMI function</u> 3</p> <p>10.5.3 <u>STM requirements regarding DMI function</u> 3</p> <p>10.6 <u>DMI Objects</u> 3</p> <p>10.6.1 <u>General</u> 3</p> <p>10.6.2 <u>DMI Object identities</u> 3</p> <p>10.6.3 <u>Text messages, Acknowledgement</u> 3</p> <p>10.6.4 <u>Indicators</u> 3</p>							

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	10.6.5 <u>Buttons</u> 3							
	10.6.6 <u>Sounds</u> 3							
	10.6.7 <u>Supervision information</u> 3							
	10.6.8 <u>DMI Object inhibition</u> 3							
	10.7 <u>DMI and ETCS On-board mode</u> 3							
	10.7.2 <u>Driver input to the On-board system</u> 3							
	10.7.3 <u>On-board outputs to the Driver</u> 3							
	11. <u>JRU STM communication</u> 3							
	11.1 <u>Recording concept</u> 3							
	11.2 <u>General requirements</u> 3							
	12. <u>Diagnostic Recorder (DRU)</u> 3							
	12.1.2 <u>Unambiguous message</u> 3							
	13. <u>Procedures</u> 3							
	13.1 <u>Specific STM Data Entry/Data View</u> 3							
	13.1.1 <u>Specific STM Data Entry</u> 3							
	13.1.2 <u>Specific STM Data View</u> 3							
	13.2 <u>STM Specific Test Procedure</u> 3							
	13.2.1 <u>General</u> 3							
	13.2.2 <u>Test request from an STM to the driver</u> 3							
	13.2.3 <u>Test procedure</u> 3							
	13.2.4 <u>Test results</u> 3							
	13.3 <u>Override. Functional behaviour between STM / ETCS</u> 3							
	13.3.1 <u>Philosophy (non-normative)</u> 3							
	13.3.2 <u>Requirements</u> 3							
	14. <u>Bus</u> 3							
	14.1 <u>The Profibus</u> 3							
	14.1.2 <u>Physical connection</u> 3							
	14.1.3 <u>Bus redundancy and retransmission</u> 3							
	14.2 <u>Safety</u> 3							
	14.3 <u>On-board Architecture</u> 3							
	14.4 <u>Physical Addressing (Station/Nodes addresses)</u> 3							
	14.5 <u>Function Addressing</u> 3							
	14.6 <u>Protocol Layers</u> 3							

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	15. Configuration Management 3							
	15.1 General 3							
	15.1.1 Aim and Objectives 3							
	15.1.2 Evolution of the versions 3							
	15.2 Compatibility Numbers 3							
	16. Annex A (System Diagrams linked to the Level Transitions with STMs) 3							
	16.1 ETCS -> STM 3							
	16.2 ETCS ->STM (Trip mode) 3							
	16.3 ETCS -> STM (NL/SL) 3							
	16.4 STM -> ETCS 3							
	16.5 STM -> ETCS (NL/SL) 3							
	16.6 STMx -> STMy 3							
	16.7 STMx -> STMy (NL/SL) 3							
	16.8 Power-On in Level STM 3							
	16.9 Power-On in Level STM (NL) 3							
	16.10 Power-On in Level STM (SL) 3							
	17. Annex B Requirements for the Transitions (Non Normative) 3							
	17.2 Transition ETCS to STM (except for non-leading / sleeping and trip situation) 3							
	17.2.1 Requirements for the announcement of the transition 3							
	17.2.2 Requirements for the area between announcement and transition border 3							
	17.2.3 Requirements for the transition 3							
	17.3 Transition ETCS to STM (trip situation) 3							
	17.3.1 Requirements for the announcement of the transition 3							
	17.3.2 Requirements for the area between announcement and transition border 3							
	17.3.3 Requirements for the transition 3							
	17.4 Transition ETCS to STM (non-leading / sleeping) 3							
	17.4.1 Requirements for the announcement of the transition 3							
	17.4.2 Requirements for the area between							

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	<u>announcement and transition border</u> 3 <u>17.4.3 Requirements for the transition</u> 3 <u>17.5 Transition STM to ETCS (except for non-leading / sleeping and trip situation)</u> 3 <u>17.5.1 Requirements for the announcement of the transition</u> 3 <u>17.5.2 Requirements for the area between announcement and transition border</u> 3 <u>17.5.3 Requirements for the transition</u> 3 <u>17.6 Transition STM to ETCS (trip situation)</u> 3 <u>17.7 Transition STM to ETCS (non-leading / sleeping)</u> 3 <u>17.7.1 Requirements for the announcement of the transition</u> 3 <u>17.7.2 Requirements for the transition</u> 3 <u>17.8 Transition STM X to STM Y (except for non-leading / sleeping and trip situation)</u> 3 <u>17.8.1 Requirements for the announcement of the transition</u> 3 <u>17.8.2 Requirements for the area between announcement and transition border</u> 3 <u>17.8.3 Requirements for the transition</u> 3 <u>17.9 Transition STM X to STM Y (trip situation)</u> 3 <u>17.10 Transition STM X to STM Y (non-leading / sleeping)</u> 3 <u>17.10.1 Requirements for the announcement of the transition</u> 3 <u>17.10.2 Requirements for the area between announcement and transition border</u> 3 <u>17.10.3 Requirements for the transition</u> 3 <u>17.11 Transition at Start of Mission (except for non-leading / sleeping)</u> 3 <u>17.11.1 Requirements for the activation of the STM at Start of Mission</u> 3 <u>17.12 Transition Start of Mission (non-leading)</u>							

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	3 <u>17.12.1 Requirements for the activation of the STM at Start of Mission</u> 3 <u>17.13 Transition Start of Mission (sleeping)</u> 3 <u>17.13.1 Requirements for the activation of the STM at Start of Mission</u> 3							
2.0-2	<u>2. Table of Contents</u> 3		False	False	False	Unknown		
2.0-3	<u>3. General</u> 3		False	False	False	Unknown		
2.0-4	<u>3.1 References</u> 3		False	False	False	Unknown		
2.0-5	<u>3.2 Scope</u> 3		False	False	False	Unknown		
2.0-6	<u>4. Introduction</u> 3		False	False	False	Unknown		
2.0-7	<u>4.1 Definitions</u> 3		False	False	False	Unknown		
2.0-8	<u>4.1.1 STM</u> 3		False	False	False	Unknown		
2.0-9	<u>4.1.2 STM of European type</u> 3		False	False	False	Unknown		
2.0-10	<u>4.1.3 STM of National type</u> 3		False	False	False	Unknown		
2.0-11	<u>4.1.4 Target System mode</u> 3		False	False	False	Unknown		
2.0-12	<u>4.1.5 Group of STMs</u> 3		False	False	False	Unknown		
2.0-13	<u>4.2 Other technical requirements</u> 3		False	False	False	Unknown		
2.0-14	<u>4.3 STM Isolation</u> 3		False	False	False	Unknown		
2.0-15	<u>5. Principles</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2.0-16	<u>5.1 Functional architecture</u> 3		False	False	False	Unknown		
2.0-17	<u>5.1.2 European STM</u> 3		False	False	False	Unknown		
2.0-18	<u>5.1.3 National STM</u> 3		False	False	False	Unknown		
2.0-19	<u>5.2 Data and ERTMS/ETCS functions for both European and National modes</u> 3		False	False	False	Unknown		
2.0-20	<u>5.2.2 Reference time</u> 3		False	False	False	Unknown		
2.0-21	<u>5.2.3 Odometry via ETCS and optional direct sensor access from STM</u> 3		False	False	False	Unknown		
2.0-22	<u>5.2.4 Train Interface</u> 3		False	False	False	Unknown		
2.0-23	<u>5.2.5 Brake Interface (BIU) via ETCS and optional direct access from STM</u> 3		False	False	False	Unknown		
2.0-24	<u>5.2.6 Juridical Recorder (JRU)</u> 3		False	False	False	Unknown		
2.0-25	<u>5.2.7 Diagnostic Recorder (DRU)</u> 3		False	False	False	Unknown		
2.0-26	<u>5.2.8 STM control function</u> 3		False	False	False	Unknown		
2.0-27	<u>5.2.9 DMI</u> 3		False	False	False	Unknown		
2.0-28	<u>5.2.10 ETCS On-board Functions available for STMs</u> 3		False	False	False	Unknown		
2.0-29	<u>5.2.11 ETCS data and Data Entry</u> 3		False	False	False	Unknown		
2.0-30	<u>5.2.12 Specific STM data and Data Entry</u> 3		False	False	False	Unknown		
2.0-31	<u>5.2.13 Transmission of ETCS air gap messages for STMs</u> 3		False	False	False	Unknown		
2.0-32	<u>5.2.14 Supervision (for European STM only)</u> 3		False	False	False	Unknown		
2.0-33	<u>6. Technical Modes of ETCS</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2.0-34	<u>6.1.2</u> <u>Sleeping and Non-leading modes</u> 3		False	False	False	Unknown		
2.0-35	<u>6.1.3</u> <u>Stand By mode</u> 3		False	False	False	Unknown		
2.0-36	<u>7.</u> <u>STM MANAGER SYSTEM (SMS)</u> 3		False	False	False	Unknown		
2.0-37	<u>7.1</u> <u>Scope</u> 3		False	False	False	Unknown		
2.0-38	<u>7.2</u> <u>General principles</u> 3		False	False	False	Unknown		
2.0-39	<u>7.3</u> <u>Requirements on STM</u> 3		False	False	False	Unknown		
2.0-40	<u>7.3.1</u> <u>STM states definition</u> 3		False	False	False	Unknown		
2.0-41	<u>7.3.2</u> <u>STM States transitions table</u> 3		False	False	False	Unknown		
2.0-42	<u>7.3.3</u> <u>Requirements linked to STM States transitions</u> 3		False	False	False	Unknown		
2.0-43	<u>7.3.4</u> <u>General STM requirements</u> 3		False	False	False	Unknown		
2.0-44	<u>7.4</u> <u>Requirements on ETCS On-board</u> 3		False	False	False	Unknown		
2.0-45	<u>7.4.1</u> <u>STM control function - "STM MANAGER SYSTEM" part</u> 3		False	False	False	Unknown		
2.0-46	<u>7.4.2</u> <u>Other ETCS requirements</u> 3		False	False	False	Unknown		
2.0-47	<u>7.5</u> <u>Engineering Requirements for the Level Transition</u> 3		False	False	False	Unknown		
2.0-48	<u>7.6</u> <u>General requirements linked to the opening of connection between STM and ETCS On-board</u> 3		False	False	False	Unknown		
2.0-49	<u>7.6.1</u> <u>Opening of the connection</u> 3		False	False	False	Unknown		
2.0-50	<u>7.6.2</u> <u>Check of version</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2.0-51	<u>7.6.3</u> <u>Closing of the connection</u> 3		False	False	False	Unknown		
2.0-52	<u>7.6.4</u> <u>Connection Sequence Charts</u> . 3		False	False	False	Unknown		
2.0-53	<u>8.</u> <u>Odometry</u> 3		False	False	False	Unknown		
2.0-54	<u>8.1</u> <u>General</u> 3		False	False	False	Unknown		
2.0-55	<u>8.2</u> <u>Speed</u> 3		False	False	False	Unknown		
2.0-56	<u>8.3</u> <u>Distance</u> 3		False	False	False	Unknown		
2.0-57	<u>8.3.1</u> <u>General</u> 3		False	False	False	Unknown		
2.0-58	<u>8.3.2</u> <u>Nominal distance</u> 3		False	False	False	Unknown		
2.0-59	<u>8.3.3</u> <u>Stochastical and non-stochastical confidence intervals</u> 3		False	False	False	Unknown		
2.0-60	<u>8.4</u> <u>Distance Parameters</u> 3		False	False	False	Unknown		
2.0-61	<u>8.4.1</u> <u>Nominal distance</u> 3		False	False	False	Unknown		
2.0-62	<u>8.4.2</u> <u>Resolution part</u> 3		False	False	False	Unknown		
2.0-63	<u>8.4.3</u> <u>Accumulative part (non-stochastic model)</u> 3		False	False	False	Unknown		
2.0-64	<u>8.4.4</u> <u>Stochastic part (ETCS option)</u> 3		False	False	False	Unknown		
2.0-65	<u>8.5</u> <u>STM Distance</u> 3		False	False	False	Unknown		
2.0-66	<u>8.5.1</u> <u>General</u> 3		False	False	False	Unknown		
2.0-67	<u>8.5.2</u> <u>Non-stochastic</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2.0-68	<u>8.5.3</u> <u>Stochastic</u> 3		False	False	False	Unknown		
2.0-69	<u>8.5.4</u> <u>Data representation</u> 3		False	False	False	Unknown		
2.0-70	<u>8.6</u> <u>Direction</u> 3		False	False	False	Unknown		
2.0-71	<u>8.7</u> <u>Configuration information</u> 3		False	False	False	Unknown		
2.0-72	<u>8.8</u> <u>Application notes on Stochastic odometry (non-normative and not reviewed)</u> 3		False	False	False	Unknown		
2.0-73	<u>8.8.1</u> <u>Introduction</u> 3		False	False	False	Unknown		
2.0-74	<u>8.8.2</u> <u>Stochastic Odometer models</u> 3		False	False	False	Unknown		
2.0-75	<u>8.8.3</u> <u>Confidence intervals with stochastic part</u> 3		False	False	False	Unknown		
2.0-76	<u>9.</u> <u>Supervision function (European mode only) TBD</u> 3		False	False	False	Unknown		
2.0-77	<u>9.1.2</u> <u>STM Profile data</u> 3		False	False	False	Unknown		
2.0-78	<u>9.1.3</u> <u>EOA Overpass</u> 3		False	False	False	Unknown		
2.0-79	<u>9.1.4</u> <u>Reference Locations</u> 3		False	False	False	Unknown		
2.0-80	<u>10.</u> <u>DMI, Driver Machine Interface</u> 3		False	False	False	Unknown		
2.0-81	<u>10.1</u> <u>Scope</u> 3		False	False	False	Unknown		
2.0-82	<u>10.2</u> <u>DMI from the hardware aspect</u> 3		False	False	False	Unknown		
2.0-83	<u>10.2.2</u> <u>The ETCS On-board DMI platform</u> 3		False	False	False	Unknown		
2.0-84	<u>10.2.3</u> <u>The separate STM DMI platform</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2.0-85	<u>10.3 DMI from the functional aspect</u> 3		False	False	False	Unknown		
2.0-86	<u>10.4 DMI from the layout aspect</u> 3		False	False	False	Unknown		
2.0-87	<u>10.4.2 Interoperable DMI</u> 3		False	False	False	Unknown		
2.0-88	<u>10.4.3 Customised DMI</u> 3		False	False	False	Unknown		
2.0-89	<u>10.4.4 Unified DMI</u> 3		False	False	False	Unknown		
2.0-90	<u>10.5 General requirements regarding DMI function</u> 3		False	False	False	Unknown		
2.0-91	<u>10.5.1 ETCS On-board and STM requirements regarding DMI function</u> 3		False	False	False	Unknown		
2.0-92	<u>10.5.2 ETCS On-board requirements regarding DMI function</u> 3		False	False	False	Unknown		
2.0-93	<u>10.5.3 STM requirements regarding DMI function</u> 3		False	False	False	Unknown		
2.0-94	<u>10.6 DMI Objects</u> 3		False	False	False	Unknown		
2.0-95	<u>10.6.1 General</u> 3		False	False	False	Unknown		
2.0-96	<u>10.6.2 DMI Object identities</u> 3		False	False	False	Unknown		
2.0-97	<u>10.6.3 Text messages, Acknowledgement</u> 3		False	False	False	Unknown		
2.0-98	<u>10.6.4 Indicators</u> 3		False	False	False	Unknown		
2.0-99	<u>10.6.5 Buttons</u> 3		False	False	False	Unknown		
2.0-100	<u>10.6.6 Sounds</u> 3		False	False	False	Unknown		
2.0-101	<u>10.6.7 Supervision information</u> 3		False	False	False	Unknown		
2.0-102	<u>10.6.8 DMI Object inhibition</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2.0-103	<u>10.7</u> <u>DMI and ETCS On-board mode</u> 3		False	False	False	Unknown		
2.0-104	<u>10.7.2</u> <u>Driver input to the On-board system</u> 3		False	False	False	Unknown		
2.0-105	<u>10.7.3</u> <u>On-board outputs to the Driver</u> 3		False	False	False	Unknown		
2.0-106	<u>11.</u> <u>JRU STM communication</u> 3		False	False	False	Unknown		
2.0-107	<u>11.1</u> <u>Recording concept</u> 3		False	False	False	Unknown		
2.0-108	<u>11.2</u> <u>General requirements</u> 3		False	False	False	Unknown		
2.0-109	<u>12.</u> <u>Diagnostic Recorder (DRU)</u> 3		False	False	False	Unknown		
2.0-110	<u>12.1.2</u> <u>Unambiguous message</u> 3		False	False	False	Unknown		
2.0-111	<u>13.</u> <u>Procedures</u> 3		False	False	False	Unknown		
2.0-112	<u>13.1</u> <u>Specific STM Data Entry/Data View</u> 3		False	False	False	Unknown		
2.0-113	<u>13.1.1</u> <u>Specific STM Data Entry</u> 3		False	False	False	Unknown		
2.0-114	<u>13.1.2</u> <u>Specific STM Data View</u> 3		False	False	False	Unknown		
2.0-115	<u>13.2</u> <u>STM Specific Test Procedure</u> 3		False	False	False	Unknown		
2.0-116	<u>13.2.1</u> <u>General</u> 3		False	False	False	Unknown		
2.0-117	<u>13.2.2</u> <u>Test request from an STM to the driver</u> 3		False	False	False	Unknown		
2.0-118	<u>13.2.3</u> <u>Test procedure</u> 3		False	False	False	Unknown		
2.0-119	<u>13.2.4</u> <u>Test results</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2.0-120	<u>13.3</u> <u>Override, Functional behaviour between STM / ETCS</u> 3		False	False	False	Unknown		
2.0-121	<u>13.3.1</u> <u>Philosophy (non-normative)</u> 3		False	False	False	Unknown		
2.0-122	<u>13.3.2</u> <u>Requirements</u> 3		False	False	False	Unknown		
2.0-123	<u>14.</u> <u>Bus</u> 3		False	False	False	Unknown		
2.0-124	<u>14.1</u> <u>The Profibus</u> 3		False	False	False	Unknown		
2.0-125	<u>14.1.2</u> <u>Physical connection</u> 3		False	False	False	Unknown		
2.0-126	<u>14.1.3</u> <u>Bus redundancy and retransmission</u> 3		False	False	False	Unknown		
2.0-127	<u>14.2</u> <u>Safety</u> 3		False	False	False	Unknown		
2.0-128	<u>14.3</u> <u>On-board Architecture</u> 3		False	False	False	Unknown		
2.0-129	<u>14.4</u> <u>Physical Addressing (Station/Nodes addresses)</u> 3		False	False	False	Unknown		
2.0-130	<u>14.5</u> <u>Function Addressing</u> 3		False	False	False	Unknown		
2.0-131	<u>14.6</u> <u>Protocol Layers</u> 3		False	False	False	Unknown		
2.0-132	<u>15.</u> <u>Configuration Management</u> 3		False	False	False	Unknown		
2.0-133	<u>15.1</u> <u>General</u> 3		False	False	False	Unknown		
2.0-134	<u>15.1.1</u> <u>Aim and Objectives</u> 3		False	False	False	Unknown		
2.0-135	<u>15.1.2</u> <u>Evolution of the versions</u> 3		False	False	False	Unknown		
2.0-136	<u>15.2</u> <u>Compatibility Numbers</u> 3		False	False	False	Unknown		
2.0-137	<u>16.</u> <u>Annex A (System Diagrams linked to</u>		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	<u>the Level Transitions with STMs</u> 3							
2.0-138	<u>16.1 ETCS -> STM</u> 3		False	False	False	Unknown		
2.0-139	<u>16.2 ETCS ->STM (Trip mode)</u> 3		False	False	False	Unknown		
2.0-140	<u>16.3 ETCS -> STM (NL/SL)</u> 3		False	False	False	Unknown		
2.0-141	<u>16.4 STM-> ETCS</u> 3		False	False	False	Unknown		
2.0-142	<u>16.5 STM-> ETCS (NL/SL)</u> 3		False	False	False	Unknown		
2.0-143	<u>16.6 STMx-> STMy</u> 3		False	False	False	Unknown		
2.0-144	<u>16.7 STMx-> STMy (NL/SL)</u> 3		False	False	False	Unknown		
2.0-145	<u>16.8 Power-On in Level STM</u> 3		False	False	False	Unknown		
2.0-146	<u>16.9 Power-On in Level STM (NL)</u> 3		False	False	False	Unknown		
2.0-147	<u>16.10 Power-On in Level STM (SL)</u> 3		False	False	False	Unknown		
2.0-148	<u>17. Annex B Requirements for the Transitions (Non Normative)</u> 3		False	False	False	Unknown		
2.0-149	<u>17.2 Transition ETCS to STM (except for non-leading / sleeping and trip situation)</u> 3		False	False	False	Unknown		
2.0-150	<u>17.2.1 Requirements for the announcement of the transition</u> 3		False	False	False	Unknown		
2.0-151	<u>17.2.2 Requirements for the area between announcement and transition border</u> 3		False	False	False	Unknown		
2.0-152	<u>17.2.3 Requirements for the transition</u> 3		False	False	False	Unknown		
2.0-153	<u>17.3 Transition ETCS to STM (trip situation)</u> 3		False	False	False	Unknown		
2.0-154	<u>17.3.1 Requirements for the announcement of</u>		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	<u>the transition</u> 3							
2.0-155	<u>17.3.2 Requirements for the area between announcement and transition border</u> 3		False	False	False	Unknown		
2.0-156	<u>17.3.3 Requirements for the transition</u> 3		False	False	False	Unknown		
2.0-157	<u>17.4 Transition ETCS to STM (non-leading / sleeping)</u> 3		False	False	False	Unknown		
2.0-158	<u>17.4.1 Requirements for the announcement of the transition</u> 3		False	False	False	Unknown		
2.0-159	<u>17.4.2 Requirements for the area between announcement and transition border</u> 3		False	False	False	Unknown		
2.0-160	<u>17.4.3 Requirements for the transition</u> 3		False	False	False	Unknown		
2.0-161	<u>17.5 Transition STM to ETCS (except for non-leading / sleeping and trip situation)</u> 3		False	False	False	Unknown		
2.0-162	<u>17.5.1 Requirements for the announcement of the transition</u> 3		False	False	False	Unknown		
2.0-163	<u>17.5.2 Requirements for the area between announcement and transition border</u> 3		False	False	False	Unknown		
2.0-164	<u>17.5.3 Requirements for the transition</u> 3		False	False	False	Unknown		
2.0-165	<u>17.6 Transition STM to ETCS (trip situation)</u> 3		False	False	False	Unknown		
2.0-166	<u>17.7 Transition STM to ETCS (non-leading / sleeping)</u> 3		False	False	False	Unknown		
2.0-167	<u>17.7.1 Requirements for the announcement of the transition</u> 3		False	False	False	Unknown		
2.0-168	<u>17.7.2 Requirements for the transition</u> 3		False	False	False	Unknown		
2.0-169	<u>17.8 Transition STM X to STM Y (except for non-leading / sleeping and trip situation)</u> 3		False	False	False	Unknown		
2.0-170	<u>17.8.1 Requirements for the announcement of the transition</u> 3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2.0-171	<u>17.8.2 Requirements for the area between announcement and transition border</u> 3		False	False	False	Unknown		
2.0-172	<u>17.8.3 Requirements for the transition</u> 3		False	False	False	Unknown		
2.0-173	<u>17.9 Transition STM X to STM Y (trip situation)</u> 3		False	False	False	Unknown		
2.0-174	<u>17.10 Transition STM X to STM Y (non-leading / sleeping)</u> 3		False	False	False	Unknown		
2.0-175	<u>17.10.1 Requirements for the announcement of the transition</u> 3		False	False	False	Unknown		
2.0-176	<u>17.10.2 Requirements for the area between announcement and transition border</u> 3		False	False	False	Unknown		
2.0-177	<u>17.10.3 Requirements for the transition</u> 3		False	False	False	Unknown		
2.0-178	<u>17.11 Transition at Start of Mission (except for non-leading / sleeping)</u> 3		False	False	False	Unknown		
2.0-179	<u>17.11.1 Requirements for the activation of the STM at Start of Mission</u> 3		False	False	False	Unknown		
2.0-180	<u>17.12 Transition Start of Mission (non-leading)</u> 3		False	False	False	Unknown		
2.0-181	<u>17.12.1 Requirements for the activation of the STM at Start of Mission</u> 3		False	False	False	Unknown		
2.0-182	<u>17.13 Transition Start of Mission (sleeping)</u> 3		False	False	False	Unknown		
2.0-183	<u>17.13.1 Requirements for the activation of the STM at Start of Mission</u> 3		False	False	False	Unknown		
3	3 General		False	False	False	Unknown		
3.1	3.1 References		False	False	False	Unknown		
3.1.1	3.1.1		False	False	False	Unknown		
3.1.1.1	3.1.1.1 /1/ SUBSET-026; SRS Version 2.2.2		False	False	False	Unknown		
3.1.1.2	3.1.1.2 /2/ SRS Version 2.2.2; SUBSET-026.1;		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Introduction							
3.1.1.3	3.1.1.3 /3/ SRS Version 2.2.2; SUBSET-026.2; Basic System Description		False	False	False	Unknown		
3.1.1.4	3.1.1.4 /4/ SRS Version 2.2.2; SUBSET-026.3; Principles		False	False	False	Unknown		
3.1.1.5	3.1.1.5 /5/ SRS Version 2.2.2; SUBSET-026.4; Modes and Transitions		False	False	False	Unknown		
3.1.1.6	3.1.1.6 /6/ SRS Version 2.2.2; SUBSET-026.5; Procedures		False	False	False	Unknown		
3.1.1.7	3.1.1.7 /7/ SRS Version 2.2.2; SUBSET-026.7; ERTMS/ETCS language		False	False	False	Unknown		
3.1.1.8	3.1.1.8 /8/ SRS Version 2.2.2; SUBSET-026.8; Messages		False	False	False	Unknown		
3.1.1.9	3.1.1.9 /9/ SUBSET-033; FIS – Man Machine Interface		False	False	False	Unknown		
3.1.1.10	3.1.1.10 /10/ SUBSET-056 STM FFFIS Safe Time Layer		False	False	False	Unknown		
3.1.1.11	3.1.1.11 /11/ SUBSET-057 STM FFFIS Safe Link Layer		False	False	False	Unknown		
3.1.1.12	3.1.1.12 /12/ SUBSET-059 STM Performance		False	False	False	Unknown		
3.1.1.13	3.1.1.13 /13/ SUBSET-058 STM Application Layer		False	False	False	Unknown		
3.1.1.14	3.1.1.14 /14/ CENELEC 50170-2 (1996) Profibus		False	False	False	Unknown		
3.1.1.15	3.1.1.15 /15/ CENELEC prEN 50xx6 (October 2000) ERTMS Driver Machine Interface		False	False	False	Unknown		
3.1.1.16	3.1.1.16 /16/ SUBSET-034 FIS for the Train Interface		False	False	False	Unknown		
3.1.1.17	3.1.1.17 /17/ SUBSET-041 Performance Requirements for Interoperability		False	False	False	Unknown		
3.1.1.18	3.1.1.18 /18/ SUBSET-054 Assignment of values to ETCS variables		False	False	False	Unknown		
3.1.1.19	3.1.1.19 /19/ CENELEC EN 50159-1 (2001) Safety related communication in closed		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	transmission systems							
3.2	3.2 Scope		False	False	False	Unknown		
3.2.1	3.2.1		False	False	False	Unknown		
3.2.1.1	3.2.1.1 FFFIS STM specifies the interface between an STM and ETCS on-board.		False	False	False	Unknown		
3.2.1.2	3.2.1.2 The acronym FFFIS stands for "Form Fit Functional Interface Specification". This means an interface specification for interoperability and covering all protocol levels of communication, and including connector and physical level.		False	False	False	Unknown		
3.2.1.3	3.2.1.3 This document has to be linked to the ERTMS/ETCS System Requirement Specification (SUBSET-026) Ref. /1/ SUBSET-026; SRS Version 2.2.2		False	False	False	Unknown		
3.2.1.4	3.2.1.4 The lowest level boundary of this standard is to the FDL layer of Profibus. Referenced Profibus specifications cover the lowest communication layers, physical layer including connector see /14/ CENELEC 50170-2 (1996) Profibus.		False	False	False	Unknown		
3.2.1.5	3.2.1.5 The upper boundary of the specification describes the functions linked to the interface between an ERTMS/ETCS On-board and an STM.		False	False	False	Unknown		
3.2.1.5.0-1			False	False	False	Unknown		
3.2.1.5.0-2	Figure 1: Scope of STM FFFIS		False	False	False	Unknown		
4	4 Introduction		False	False	False	Unknown		
4.1	4.1 Definitions		False	False	False	Unknown		
4.1.1	4.1.1 STM		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
4.1.1.1	4.1.1.1 The STM associated to an ETCS on-board is able to perform train movement supervision on national fitted lines, using the national train control infrastructure information. The national train control system shall be called the target system.f		False	False	False	Unknown		
4.1.1.2	4.1.1.2 It interfaces with ETCS on-board through the STM FFFIS interface. The combination of STM and ETCS on-board realises a set of functionality that shall fulfil the requirements for the target system.		True	False	False	Unknown		
4.1.1.3	4.1.1.3 The connection of an STM to an ETCS onboard shall not require functional extensions of ETCS on-board or DMI beyond what is included in UNISIG specifications to support STMs.	ETCS STM National STM European	True	False	False	SOM ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		
4.1.1.4	4.1.1.4 The STM shall be identified by a unique number NID_STM as specified in the UIC list (see /18/ SUBSET-054 Assignment of values to ETCS variables).	STM National STM European	True	False	True	Unknown		
4.1.1.5	4.1.1.5 STM shall use the common Time & Odometer information from ETCS onboard distributed through the STM interface.	STM National STM European	True	False	False	Unknown		
4.1.1.5.1	4.1.1.5.1 Exception: A direct interface of the STM to the odometer sensor shall be allowed only if required due to performance reasons		True	False	False	Unknown		
4.1.1.6	4.1.1.6 The functionality related to train supervision shall fully comply with the national		True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	requirements for the target system.							
4.1.1.7	4.1.1.7 STM shall control brakes and other train based functions (TIU) through the Brake or Train Interface of the ETCS on-board.	ETCS STM National STM European	True	True	False	DA	6.4.0.0.0.0.0	
4.1.1.7.1	4.1.1.7.1 Exception: A direct interface of the STM to the emergency brake and the traction cut-off shall be allowed only if required due to performance reasons		True	False	False	Unknown		
4.1.1.7.2	4.1.1.7.2 The STM may have a direct interface to functions that are national and not defined on a European level.		False	False	False	Unknown		
4.1.1.8	4.1.1.8 The STM shall monitor its own technical ability to function safely. The safe state shall be reported to the ETCS onboard.	STM National STM European	True	False	False	SOM ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		Only the state report can be tested.
4.1.1.9	4.1.1.9 The ETCS onboard is responsible for supervision of STM safety integrity and to take safe action in case of failure.		False	False	False	Unknown		
4.1.2	4.1.2 STM of European type		False	False	False	Unknown		
4.1.2.1	4.1.2.1 When an STM of the European type is active, the ETCS on-board shall operate in Level STM and the technical mode STM European (SE) as described in Ref: /1/ SUBSET-026; SRS Version 2.2.2.		False	False	False	Unknown		European STM is TBD
4.1.2.2	4.1.2.2 The European STM shall use the supervision functions available in the ETCS on-		False	False	False	Unknown		European STM is TBD

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	board. This includes braking curve calculation, selection of Most Restrictive Speed Profile, and speed supervision. (SRS see Ref.: /4/ SRS Version 2.2.2; SUBSET-026.3; Principles)							
4.1.2.3	4.1.2.3 An STM using the European mode shall transform received infrastructure data into STM Profile data and transmit to the ETCS on-board. The ETCS on-board shall be responsible for the safe train movement within the STM Profile.		False	False	False	Unknown		European STM is TBD
4.1.2.4	4.1.2.4 STM Profile definition		False	False	False	Unknown		
4.1.2.4.1	4.1.2.4.1 The STM Profile Data is the data needed to define safe train movement in space, speed and time.		False	False	False	Unknown		
4.1.2.4.2	4.1.2.4.2 The STM Profile is defined as:		False	False	False	Unknown		
4.1.2.4.2.0-1	Movement Authority		False	False	False	Unknown		
4.1.2.4.2.0-2	Static Speed Profile		False	False	False	Unknown		
4.1.2.4.2.0-3	Gradient profile		False	False	False	Unknown		
4.1.2.4.2.0-4	STM Reference Location for the beginning of STM Profile		False	False	False	Unknown		
4.1.2.4.3	4.1.2.4.3 Note: The SRS uses the term Profile only for static aspects of the track, such as Static Speed Profile. In the STM scope the STM Profile also involves the dynamic aspects such as Movement Authority.		False	False	False	Unknown		
4.1.2.4.4	4.1.2.4.4 When transmitting an STM Profile, all these four information mentioned above (4.1.2.4.2) shall be transmitted together in the same message.		False	False	False	Unknown		European STM is TBD
4.1.2.4.5	4.1.2.4.5 The STM Reference Location provided shall be used as origin point for Movement Authority, Static Speed Profile and Gradient Profile.		False	False	False	Unknown		European STM is TBD

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
4.1.3	4.1.3 STM of National type		False	False	False	Unknown		
4.1.3.1	4.1.3.1 When an STM of the National type is active, the ETCS on-board shall operate in Level STM and the technical mode STM National (SN) as described in Ref: /1/ SUBSET-026; SRS Version 2.2.2.	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2, 6.1.2.2, 6.1.2.3.0.0.0, 6.1.3.2	
4.1.3.2	4.1.3.2 An STM using the National mode shall perform and be responsible for the train supervision. The ETCS on-board is still active, but shall only be responsible for the interfacing and communication with resources such as DMI, Odometer and Train Interface.	ETCS STM National STM European	True	True	False	DA		If the STM sends the state DA, this requirement is considered as fulfilled.
4.1.4	4.1.4 Target System mode		False	False	False	Unknown		
4.1.4.1	4.1.4.1 The Target System modes and definition is depending on the target system.		False	False	False	Unknown		
4.1.4.2	4.1.4.2 The Target System modes shall be implemented in the STM and not transmitted to the ETCS onboard		True	False	False	Unknown		
4.1.4.2.1	4.1.4.2.1 Note: It is the national correspondence to the ETCS Technical Modes.		False	False	False	Unknown		
4.1.4.2.2	4.1.4.2.2 Note: Target System mode is a purely national matter. But it has a different term for each target system. A harmonised term is helpful for understanding and to make a clear distinction from ETCS Technical Modes.		False	False	False	Unknown		
4.1.4.2.3	4.1.4.2.3 Note: Some target systems have defined fallback actions for degraded situations. Such fallback modes are defined among the Target System modes. They are typically related to trackside failures or transmission disturbances.		False	False	False	Unknown		
4.1.5	4.1.5 Group of STMs		False	False	False	Unknown		
4.1.5.1	4.1.5.1 Background: Some infrastructures have implemented more than one target system in		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	parallel for train protection purposes. Typically the target systems complement each other (in functionality or availability).							
4.1.5.2	4.1.5.2 The target systems may operate simultaneously or one at a time, depending on installation and system functionality.		False	False	False	Unknown		
4.1.5.3	4.1.5.3 To avoid complexity and national rules in the ETCS onboard, the STM FFFIS requires that only one STM can be active (supervising) at a time. Change of active STM shall only take place at Level Transitions.	ETCS	True	False	False	SOM ETCS->STM STM->ETCS STM->STM DA		In the Start of Mission, for example, the driver changes from one STM level to another one (the first one is in DA, the cab is closed and opened, and the driver changes the level to another STM level).
4.1.5.4	4.1.5.4 For infrastructures with more than one target system the concept of STM Group shall be used. One target system On-board equipment shall take the role of master, having communication with ETCS onboard. The other target system On-board equipment(s) shall communicate with ETCS On-board via the master.	STM National STM European	True	False	False	SOM		Test is covered by testing requirement 4.1.5.5
4.1.5.5	4.1.5.5 Thus, multiple target systems in a group shall appear as one STM to the ETCS on-board. The target system On-board equipments in a group shall internally manage issues such as priority, safety and output conflicts.	STM National STM European	True	False	False	SOM		This is only for STM groups
4.1.5.6	4.1.5.6 An STM Group can be of European or National type.		False	False	False	Unknown		
4.1.5.7	4.1.5.7 Switching between the target systems in a group is controlled within the group. ETCS On-board takes no part in this.		False	False	False	Unknown		
4.2	4.2 Other technical requirements		False	False	False	Unknown		
4.2.1	4.2.1		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
4.2.1.1	4.2.1.1 The ETCS On-board if not in the ETCS technical modes No Power, Isolation or System Failure Mode shall accept STMs entering the bus at any time, except if there was a final disconnection with the entering STM.	ETCS	True	True	False	ASU	2.0.0.0.8.0.1.0 2.0.0.0.2.0.2.0.1.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
4.2.1.1.1	4.2.1.1.1 Note: This allows to restart an STM without restarting the ETCS onboard.		False	False	False	Unknown		
4.2.1.1.2	4.2.1.1.2 Note: To recover from failure modes considered as severe, it may also be necessary to restart the ETCS onboard equipment.		False	False	False	Unknown		
4.2.1.2	4.2.1.2 The ETCS on-board is in all technical modes responsible for monitoring safety integrity of connected STMs and take safe action in case of lost safety integrity.		False	False	False	Unknown		
4.2.1.3	4.2.1.3 If a passive STM (an STM which is not in State Data Available) fails or loses safety integrity, the ETCS onboard shall not brake due to the STM failure.	ETCS	True	True	False	FA	9a.2.0.1.2, 9b.2.0.1.1.0, 9c.2.0.1.2, 9d.2.0.1.2, 9e.2.0.1.2	
4.2.1.3.1	4.2.1.3.1 Justification: The failure of a passive STM is not critical to train safety. Restart can be planned at next trainstop location, See Ref.: 7.4.1.6.1.		False	False	False	Unknown		
4.3	4.3 STM Isolation		False	False	False	Unknown		
4.3.1	4.3.1		False	False	False	Unknown		
4.3.1.1	4.3.1.1 It shall be possible to isolate an STM from the rest of the ETCS On-board equipment on the interface. The isolation shall ensure that	STM National STM	True	False	True	Unknown		This is a train implementation issue.

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	the function of the bus is not disturbed by the isolated STM.	European						
4.3.1.1.1	4.3.1.1.1 Note: All possible direct interfaces with the train and the driver are out of the scope of the FFFIS Specification.		False	False	False	Unknown		
5	5 Principles		False	False	False	Unknown		
5.1	5.1 Functional architecture		False	False	False	Unknown		
5.1.1	5.1.1		False	False	False	Unknown		
5.1.1.1	5.1.1.1 STM shall use the STM FFFIS to communicate with functions and resources within ETCS on-board, including:		True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		It is an implicit requirement
5.1.1.1.0-1	DMI	ETCS	True	False	False	ASU ETCS->STM STM->STM DA		It is an implicit requirement
5.1.1.1.0-2	Supervision	STM European	True	False	False	DA		It is an implicit requirement
5.1.1.1.0-3	STM Control	ETCS STM National STM European	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA		It is an implicit requirement

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DE OT OVR		
5.1.1.1.0-4	Reference clock	ETCS STM National STM European	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR		It is an implicit requirement
5.1.1.1.0-5	BIU	ETCS	True	False	False	DA OT		It is an implicit requirement
5.1.1.1.0-6	TIU	ETCS	True	False	False	DA OT		It is an implicit requirement
5.1.1.1.0-7	JRU	ETCS	True	False	False	JRU		It is an implicit requirement
5.1.1.1.0-8	DRU (optional)	ETCS	True	False	False	DRU		It is an implicit requirement
5.1.1.1.0-9	Odometer	ETCS	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR		It is an implicit requirement
5.1.1.2	5.1.1.2 In addition to the connection with ETCS onboard via STM FFFIS, the STM can have a direct connection with:		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.1.1.2.0-1	National trackside equipment via antenna		False	False	False	Unknown		
5.1.1.2.0-2	Separate DMI (optional)		False	False	False	Unknown		
5.1.1.2.0-3	Separate JRU (optional)		False	False	False	Unknown		
5.1.1.2.0-4	Separate DRU (optional)		False	False	False	Unknown		
5.1.1.2.0-5	Separate TIU (optional)		False	False	False	Unknown		
5.1.1.2.0-6	Separate BIU (if required due to performance reasons)		False	False	False	Unknown		
5.1.1.2.0-7	Odometer (if required due to performance reasons)		False	False	False	Unknown		
5.1.2	5.1.2 European STM		False	False	False	Unknown		
5.1.2.0-1			False	False	False	Unknown		ETCS On-board is considered as a black box for test.
5.1.2.0-2	Figure 2: European configuration of STM and ETCS onboard: Data flow		False	False	False	Unknown		
5.1.2.1	5.1.2.1 Supervision shall be done within the ETCS on-board.	STM European	True	False	False	Unknown		
5.1.3	5.1.3 National STM		False	False	False	Unknown		
5.1.3.0-1			False	False	False	Unknown		ETCS On-board is considered as a black box for test.
5.1.3.0-2	Figure 3: National configuration of STM and ETCS onboard: Data flow		False	False	False	Unknown		
5.1.3.1	5.1.3.1 Supervision shall be done within the STM.	STM National	True	False	False	Unknown		
5.2	5.2 Data and ERTMS/ETCS functions for both European and National modes		False	False	False	Unknown		

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5.2.1	5.2.1		False	False	False	Unknown		
5.2.1.1	5.2.1.1 The following paragraphs describe the ERTMS/ETCS functions that are available for STM and the data that shall be transmitted over the interface both for National and European configurations.		False	False	False	Unknown		
5.2.1.2	5.2.1.2 The data is transmitted over the STM bus using Multicast or Point-to-Point Connections, see chapter 14.5.	ETCS STM National STM European	False	False	False	Unknown		
5.2.2	5.2.2 Reference time		False	False	False	Unknown		
5.2.2.1	5.2.2.1 ETCS onboard is responsible for providing common reference time to all STMs. This is defined in /10/ SUBSET-056 STM FFFIS Safe Time Layer.	ETCS	False	False	False	Unknown		See Subset-056 (STL)
5.2.3	5.2.3 Odometry via ETCS and optional direct sensor access from STM		False	False	False	Unknown		
5.2.3.1	5.2.3.1 ETCS odometry shall include distance, speed, confidence interval for distance and speed, and time stamp for odometer data.	ETCS	True	False	False	ETCS->STM STM->ETCS STM->STM DA		This is covered by chapter 8 tests.
5.2.3.2	5.2.3.2 Odometry data shall be sent by the ERTMS/ETCS On-board to all STMs.	ETCS	True	False	False	ETCS->STM STM->ETCS STM->STM DA		This is covered by chapter 8 tests.
5.2.3.2.1	5.2.3.2.1 Exception: A direct interface of the STM to the odometer sensor shall be allowed only if required due to performance reasons.	STM National STM European	True	False	False	Unknown		STM internal
5.2.3.2.1.1	5.2.3.2.1.1 Note: Due to project dependant		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	implementations of the direct odometer interface according to different train / locomotive equipments, it is not possible to specify one solution for the direct interface which has to be used by all STMs.							
5.2.3.3	5.2.3.3 An STM needing a direct interface to an odometer sensor shall not impose modifications on the ETCS On-board due to the need of the direct interface.		True	False	False	Unknown		
5.2.3.4	5.2.3.4 The STM supplier may seek for a solution with either ETCS supplier or the train manufacturer on a case-by-case decision, as it is not mandatory for the ETCS On-board to provide a direct interface to an odometer sensor.		False	False	False	Unknown		
5.2.4	5.2.4 Train Interface		False	False	False	Unknown		
5.2.4.1	5.2.4.1 A subset of the train interface signals specified in the TIU FIS (see /16/ SUBSET-034 FIS for the Train Interface), Status / Availability and Command are transmitted via the FFFIS STM. These train interface signals transmitted via the FFFIS STM are called Train Interface FFFIS STM signals.		True	False	False	Unknown		Covered by 5.2.4.3 and 5.2.4.4
5.2.4.2	5.2.4.2 The TIU function is described as the exchange of information between the train interface and the STM, in this case:		False	False	False	Unknown		
5.2.4.2.0-1	Status: is a functional information coming from the train interface to the STM.		False	False	False	Unknown		
5.2.4.2.0-2	Command: is a functional information coming from the STM to the train interface.		False	False	False	Unknown		
5.2.4.3	5.2.4.3 Train Interface FFFIS STM command signals shall be:	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA	6.4.0.0.0.0.0, 6.5.0.0.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OT		
5.2.4.3.0-1.0-1.0-1	Name of function		False	False	False	Unknown		
5.2.4.3.0-1.0-1.0-2	Comments		False	False	False	Unknown		
5.2.4.3.0-1.0-2.0-1	Regenerative Brake	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.4.0.0.0.0.0.0	
5.2.4.3.0-1.0-2.0-2	5.2.4.3.0-1.0-2.0-2		False	False	False	Unknown		
5.2.4.3.0-1.0-3.0-1	Magnetic Shoes	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.4.0.0.0.0.0.0	
5.2.4.3.0-1.0-3.0-2	5.2.4.3.0-1.0-3.0-2		False	False	False	Unknown		
5.2.4.3.0-1.0-4.0-1	Eddy Current Brake	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.4.0.0.0.0.0.0	
5.2.4.3.0-1.0-4.0-2	5.2.4.3.0-1.0-4.0-2		False	False	False	Unknown		
5.2.4.3.0-	Inhibit Passenger Emergency Brake	ETCS	True	True	False	SOM	6.4.0.0.0.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-5.0-1						ASU ETCS->STM STM->ETCS STM->STM DA OT		
5.2.4.3.0-1.0-5.0-2	5.2.4.3.0-1.0-5.0-2		False	False	False	Unknown		
5.2.4.3.0-1.0-6.0-1	Pantograph	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.5.0.0.0.0.0.0	
5.2.4.3.0-1.0-6.0-2	5.2.4.3.0-1.0-6.0-2		False	False	False	Unknown		
5.2.4.3.0-1.0-7.0-1	Air Tightness	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.5.0.0.0.0.0.0	
5.2.4.3.0-1.0-7.0-2	5.2.4.3.0-1.0-7.0-2		False	False	False	Unknown		
5.2.4.3.0-1.0-8.0-1	Main Switch / Circuit Breaker	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.5.0.0.0.0.0.0	
5.2.4.3.0-	This is considered as only one command.	ETCS	False	False	False	SOM		

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1.0-8.0-2						ASU ETCS->STM STM->ETCS STM->STM DA OT		
5.2.4.3.0-1.0-9.0-1	Traction Cut Off	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.5.0.0.0.0.0.0	
5.2.4.3.0-1.0-9.0-2	5.2.4.3.0-1.0-9.0-2		False	False	False	Unknown		
5.2.4.3.1	5.2.4.3.1 Note: Service and Emergency Brake command are handled in the BIU interface see chapter 5.2.5.		False	False	False	Unknown		
5.2.4.4	5.2.4.4 Train Interface FFFIS STM status signals shall be:	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.10.0.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
5.2.4.4.0-1.0-1.0-1	Name of function		False	False	False	Unknown		
5.2.4.4.0-1.0-1.0-2	Comments		False	False	False	Unknown		
5.2.4.4.0-1.0-2.0-1	Sleeping	ETCS STM National	True	True	False	SOM ASU ETCS->STM	6.10.0.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		STM European				STM->ETCS STM->STM DA OT	2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
5.2.4.4.0-1.0-2.0-2	This information is part of the ETCS On-board technical mode	ETCS STM National STM European	False	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT		
5.2.4.4.0-1.0-3.0-1	Traction Cut Off	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.10.0.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
5.2.4.4.0-1.0-3.0-2	5.2.4.4.0-1.0-3.0-2		False	False	False	Unknown		
5.2.4.4.0-1.0-4.0-1	Direction Controller Position	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DE	6.10.0.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
5.2.4.4.0-1.0-4.0-2	5.2.4.4.0-1.0-4.0-2		False	False	False	Unknown		
5.2.4.4.0-1.0-5.0-1	Cab Status (Desk Status)	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT	6.10.0.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
5.2.4.4.0-1.0-5.0-2	5.2.4.4.0-1.0-5.0-2		False	False	False	Unknown		
5.2.4.4.1	5.2.4.4.1 Note: Service and Emergency Brake status are handled in the BIU interface see chapter 5.2.5.		False	False	False	Unknown		
5.2.4.5	5.2.4.5 The STM shall have the possibility to have a direct interface to train interface signals that are not specified in the FFFIS STM.		True	False	False	Unknown		
5.2.4.6	5.2.4.6 The STM shall have the possibility to open a communication session to a specific ETCS On-board function by using a spare SAP in order to transmit train interface signals not included in the FFFIS STM.		True	False	False	Unknown		Outside the FFFIS function
5.2.5	5.2.5 Brake Interface (BIU) via ETCS and optional direct access from STM		False	False	False	Unknown		
5.2.5.1	5.2.5.1 The Brake Interface via ETCS is formally a part of the Train Interface. It shall include the brake interface parameters, command and status / availability of the Emergency Brake access and the Service Brake access.		False	False	False	Unknown		It is a definition of BIU.
5.2.5.2	5.2.5.2 The Brake Interface is separated to allow physical separation between Train		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Interface and Brake Interface.							
5.2.5.2.1	5.2.5.2.1 Justification: The safety and performance requirements on brake versus other train interface signals are different. The command of the Emergency Brake is required to be fail-safe.		False	False	False	Unknown		
5.2.5.3	5.2.5.3 The ETCS onboard shall accept a brake command from an STM only when the following conditions are fulfilled:	ETCS	True	True	False	DA	6.4.0.0.0.0.0.0	
5.2.5.3.0-1	The STM is in state Data Available.	ETCS	True	True	False	DA	6.4.0.0.0.0.0.0	
5.2.5.3.0-2	The ETCS onboard is in mode STM European (SE) or STM National (SN).	ETCS	True	True	False	DA	6.4.0.0.0.0.0.0	
5.2.5.4	5.2.5.4 A direct interface of the STM to the emergency brake and the traction cut-off (both optional) shall be allowed only if required due to performance reasons.		True	False	False	Unknown		
5.2.5.4.1	5.2.5.4.1 Note: The direct interface to the traction cut-off may have to be included in this direct interface because of the technical requirements of some trains / locomotives which do not allow an emergency brake application while the traction is not cut-off, because this may lead to problems / failures of the train /locomotive equipment.		False	False	False	Unknown		
5.2.5.4.2	5.2.5.4.2 Note: Due to project dependant implementations of the direct brake interface according to different train / locomotive equipments, it is not possible to specify one solution for the direct interface which has to be used by all STMs.		False	False	False	Unknown		
5.2.5.5	5.2.5.5 The STM shall be allowed to apply the emergency brake using the direct interface only when the STM is active (in state "Data Available") and the ETCS technical mode is SN or SE.		True	False	False	Unknown		
5.2.5.6	5.2.5.6 The STM shall release the emergency		True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	brake using the direct interface when the STM is no more active (Transition from DA to any other state).							
5.2.5.7	5.2.5.7 The STM shall be allowed to apply the traction cut-off using the direct interface only when the emergency brake application is allowed over the direct interface (see chapter 5.2.5.5).		True	False	False	Unknown		
5.2.5.8	5.2.5.8 In case of some (hardware) failures within the STM the above requirements may not be fulfilled. To cover this situation the STM isolation shall also isolate the STM from the brakes and traction cut-off in addition to the current requirements to the isolation of the STM see chapter 4.3.		True	False	False	Unknown		Isolation belongs to the train implementation.
5.2.5.8.1	5.2.5.8.1 Justification: This requirement is to release a brake application and traction cut-off of an STM in case of a failed STM.		False	False	False	Unknown		
5.2.6	5.2.6 Juridical Recorder (JRU)		False	False	False	Unknown		
5.2.6.1	5.2.6.1 The STM shall be allowed to transmit through the FFFIS the national data to be recorded in the ETCS JRU.	ETCS STM National STM European	True	True	False	JRU		The requirements on STM are STM internal and not testable. Then, the requirements on ETCS are tested more precise in 5.2.10.1 and not tested here.
5.2.6.2	5.2.6.2 An optional separate national juridical recorder is allowed. It is directly connected to the STM. This is out of the scope of this specification.		False	False	False	Unknown		
5.2.6.2.1	5.2.6.2.1 Justification: The National Authority may require the national juridical recorder for existing recording media and routines for a period until the European JRU is accepted.		False	False	False	Unknown		
5.2.6.3	5.2.6.3 For more details see chapter 11.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.7	5.2.7 Diagnostic Recorder (DRU)		False	False	False	Unknown		
5.2.7.1	5.2.7.1 The STM shall be allowed to transmit through the FFFIS the national data to be recorded in an ETCS DRU.	ETCS STM National STM European	True	True	False	DRU		This requirement is tested more precise in 5.2.10.1, so this requirement is not tested here.
5.2.7.1.1	5.2.7.1.1 Note: The ETCS DRU is optional for the ERTMS/ETCS On-Board equipment.		False	False	False	Unknown		
5.2.7.2	5.2.7.2 An optional separate national diagnostic recorder is allowed. It is directly connected to the STM. This is out of the scope of this specification.		False	False	False	Unknown		
5.2.7.3	5.2.7.3 For more details see chapter 12.		False	False	False	Unknown		
5.2.8	5.2.8 STM control function		False	False	False	Unknown		
5.2.8.1	5.2.8.1 The STM control function shall control the STM state, the STM safety integrity and the compatibility of the ETCS On-board and STM version.	ETCS	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM FA		The STM state shall be checked in the STM to STM F ID, ASU and FA. Safety integrity shall be tested in FA. The compatibility shall be checked in STM to STM and in ASU
5.2.8.2	5.2.8.2 The STM control function shall handle the transmission of the ETCS data for STM and the specific Data Entry for STM see chapter 5.2.11, 5.2.12 and 13.1.1.	ETCS	True	False	False	DE		Covered by the § in reference.
5.2.8.3	5.2.8.3 The STM control function shall handle the test procedure for STMs see chapter 13.2.	ETCS	True	False	False	OT		Covered by the § in reference.
5.2.8.4	5.2.8.4 The STM control function shall handle the override procedure for STMs see chapter 13.3.	ETCS	True	False	False	OVR		Covered by the § in reference.
5.2.9	5.2.9 DMI		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.9.1	5.2.9.1 The STM shall be allowed to use the ETCS DMI function as interface to the driver. This includes:	ETCS STM National STM European	True	False	False	DA		This is definition.
5.2.9.1.1	5.2.9.1.1 Management of button object.	ETCS STM National STM European	True	False	False	DA		This is definition.
5.2.9.1.2	5.2.9.1.2 Setting indicator status.	ETCS STM National STM European	True	False	False	DA		This is definition.
5.2.9.1.3	5.2.9.1.3 Control/inhibition over some objects in the DMI (see chapter 10.7.2.5 and chapter 10.7.3.5).	ETCS STM National STM European	True	False	False	DA		This is definition.
5.2.9.1.4	5.2.9.1.4 Sounds and text commands.	ETCS STM National STM European	True	False	False	DA		This is definition.
5.2.9.2	5.2.9.2 Separate DMI is an option for DMI components that are part of STM hardware. The usage of this option shall be kept to a minimum.		False	False	False	Unknown		
5.2.9.3	5.2.9.3 For further details see chapter 10.		False	False	False	Unknown		
5.2.10	5.2.10 ETCS On-board Functions available for		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	STMs							
5.2.10.1	5.2.10.1 The STM shall be allowed to access the ETCS On-board functions according to the following table:	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.4.0.0.0.0.0.0, 6.5.0.0.0.0.0.0, 6.6.0.0, 6.7.0.0.0.0.0, 6.12.0.0.0.0.0.0.0, 6.13.0.0.0.0.0.0.0, 6.14.0.0.0.0.0.0.0	
5.2.10.1.0-1	x = access is allowed in all Levels		True	False	False	Unknown		This is definition.
5.2.10.1.0-2	(x) = access is allowed in all Levels if possible		True	False	False	Unknown		This is definition.
5.2.10.1.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		True	False	False	Unknown		This is definition.
5.2.10.1.0-3.0-1.0-1.0-1	No.		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-3	NP		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-4	SB		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-5	SH		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-6	FS		True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-1.0-7	SR		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-8	OS		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-9	SL		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-10	NL		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-11	UN		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-12	TR		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-13	PT		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-14	SF		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-15	IS		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-16	SE		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-17	SN		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-1.0-18	RV		True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-2.0-1	1		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-2.0-2	STM Control Function		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-2.0-3	5.2.10.1.0-3.0-1.0-2.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-2.0-4	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	STM CONTROL FUNCTION
5.2.10.1.0-3.0-1.0-2.0-5	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.2.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-2.0-6	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM	2.0.0.0.3.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-2.0-7	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-2.0-8	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-2.0-9	x	ETCS STM National STM European	True	True	False	Unknown	2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-	x	ETCS	True	True	False	SOM	2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.3.	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-2.0-10		STM National STM European				ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	0.1.0.1.0	
5.2.10.1.0-3.0-1.0-2.0-11	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.8.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-2.0-12	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-2.0-13	x	ETCS STM National	True	True	False	SOM ASU ETCS->STM	2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		STM European				STM->ETCS STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-2.0-14	5.2.10.1.0-3.0-1.0-2.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-2.0-15	5.2.10.1.0-3.0-1.0-2.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-2.0-16	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.11.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-2.0-17	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.12.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-2.0-18	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.13.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-3.0-1	2		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-3.0-2	Reference Clock		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-3.0-3	5.2.10.1.0-3.0-1.0-3.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-3.0-4	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	REFERENCE CLOCK
5.2.10.1.0-3.0-1.0-3.0-5	x	ETCS STM National STM	True	True	False	SOM ASU ETCS->STM STM->ETCS	2.0.0.0.2.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		European				STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-3.0-6	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.3.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-3.0-7	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-3.0-8	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-3.0-9	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-3.0-10	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-3.0-11	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT	2.0.0.0.8.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OVR JRU DRU		
5.2.10.1.0-3.0-1.0-3.0-12	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-3.0-13	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-3.0-14	5.2.10.1.0-3.0-1.0-3.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-3.0-15	5.2.10.1.0-3.0-1.0-3.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-3.0-16	x	ETCS STM National STM	True	True	False	SOM ASU ETCS->STM STM->ETCS	2.0.0.0.11.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		European				STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-3.0-17	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.12.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-3.0-18	x	ETCS STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.13.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-4.0-1	3		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-2	European Supervision		True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-4.0-3	5.2.10.1.0-3.0-1.0-4.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-4	5.2.10.1.0-3.0-1.0-4.0-4		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-5	5.2.10.1.0-3.0-1.0-4.0-5		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-6	5.2.10.1.0-3.0-1.0-4.0-6		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-7	5.2.10.1.0-3.0-1.0-4.0-7		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-8	5.2.10.1.0-3.0-1.0-4.0-8		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-9	5.2.10.1.0-3.0-1.0-4.0-9		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-10	5.2.10.1.0-3.0-1.0-4.0-10		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-11	5.2.10.1.0-3.0-1.0-4.0-11		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-12	5.2.10.1.0-3.0-1.0-4.0-12		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-13	5.2.10.1.0-3.0-1.0-4.0-13		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-14	5.2.10.1.0-3.0-1.0-4.0-14		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-4.0-15	5.2.10.1.0-3.0-1.0-4.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-16	s	ETCS	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		European STM : No test in SE
5.2.10.1.0-3.0-1.0-4.0-17	5.2.10.1.0-3.0-1.0-4.0-17		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-4.0-18	5.2.10.1.0-3.0-1.0-4.0-18		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-1	4		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-2	DMI		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-3	5.2.10.1.0-3.0-1.0-5.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-4	5.2.10.1.0-3.0-1.0-5.0-4		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-5	5.2.10.1.0-3.0-1.0-5.0-5		False	False	False	Unknown		
5.2.10.1.0-	5.2.10.1.0-3.0-1.0-5.0-6		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-5.0-6								
5.2.10.1.0-3.0-1.0-5.0-7	5.2.10.1.0-3.0-1.0-5.0-7		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-8	5.2.10.1.0-3.0-1.0-5.0-8		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-9	5.2.10.1.0-3.0-1.0-5.0-9		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-10	s	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		DMI
5.2.10.1.0-3.0-1.0-5.0-11	5.2.10.1.0-3.0-1.0-5.0-11		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-12	5.2.10.1.0-3.0-1.0-5.0-12		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-13	5.2.10.1.0-3.0-1.0-5.0-13		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-14	5.2.10.1.0-3.0-1.0-5.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-5.0-15	5.2.10.1.0-3.0-1.0-5.0-15		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
5.2.10.1.0-3.0-1.0-5.0-16	s	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		Mode SE not tested
5.2.10.1.0-3.0-1.0-5.0-17	s	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.1.1.1.0.0, 6.1.1.2, 6.1.2.2, 6.1.2.3.0.0.0, 6.3.0.0.0.0.0.0, 6.9.0, 6.11.0.0.0	
5.2.10.1.0-3.0-1.0-5.0-18	5.2.10.1.0-3.0-1.0-5.0-18		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-6.0-1	5		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-6.0-3	5.2.10.1.0-3.0-1.0-6.0-3		False	False	False	Unknown		
5.2.10.1.0-	x	ETCS	True	True	False	SOM	1.1.0.0.1.0.1.1.0.1.0	DMI PRELIMINARY

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-6.0-4						ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-6.0-5	5.2.10.1.0-3.0-1.0-6.0-5		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-6.0-6	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	3b.3.1	
5.2.10.1.0-3.0-1.0-6.0-7	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	3b.4.1	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-6.0-8	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	3b.5.1	
5.2.10.1.0-3.0-1.0-6.0-9	5.2.10.1.0-3.0-1.0-6.0-9		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-6.0-10	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	3b.6.1	
5.2.10.1.0-3.0-1.0-6.0-11	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	3b.7.1	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-6.0-12	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	3b.8.2.0	
5.2.10.1.0-3.0-1.0-6.0-13	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	3b.8.2.0	
5.2.10.1.0-3.0-1.0-6.0-14	5.2.10.1.0-3.0-1.0-6.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-6.0-15	5.2.10.1.0-3.0-1.0-6.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-6.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE		European STM (Not tested)

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-6.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	5b.1.2.2.3.0, 5b.1.2.3.0	
5.2.10.1.0-3.0-1.0-6.0-18	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		According to the SRS is not possible to test it. This requirement has to be removed from subset-35.
5.2.10.1.0-3.0-1.0-7.0-1	6		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-7.0-2	JRU		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-7.0-3	5.2.10.1.0-3.0-1.0-7.0-3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-7.0-4	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	JRU
5.2.10.1.0-3.0-1.0-7.0-5	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.2.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-7.0-6	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.3.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-7.0-	x	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7						ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-7.0-8	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-7.0-9	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.12.0.0.0.0.0.0.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-7.0-10	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS	6.13.0.0.0.0.0.0.0 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-7.0-11	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.14.0.0.0.0.0.0 2.0.0.0.8.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-7.0-12	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-7.0-13	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA	2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-7.0-14	(x)	ETCS	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-7.0-15	5.2.10.1.0-3.0-1.0-7.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-7.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.11.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-7.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM	6.14.0.0.0.0.0.0 2.0.0.0.12.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-7.0-18	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.13.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-1	7		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-8.0-2	DRU		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-8.0-3	5.2.10.1.0-3.0-1.0-8.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-8.0-4	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU	2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	DRU

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DRU		
5.2.10.1.0-3.0-1.0-8.0-5	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.2.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-6	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.3.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-7	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-8.0-8	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-9	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.12.0.0.0.0.0.0.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-10	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.13.0.0.0.0.0.0.0 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-	x	ETCS	True	True	False	SOM ASU	6.14.0.0.0.0.0.0.0 2.0.0.0.8.0.2.0.2.0.0.0.1.0.0.1.3.	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11						ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-12	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-13	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-14	(x)	ETCS	True	False	False	SOM ASU ETCS->STM STM->ETCS		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-8.0-15	5.2.10.1.0-3.0-1.0-8.0-15		False	True	False	Unknown		
5.2.10.1.0-3.0-1.0-8.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.11.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-8.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.14.0.0.0.0.0.0.0	
5.2.10.1.0-3.0-1.0-8.0-18	x	ETCS	True	True	False	SOM ASU ETCS->STM	2.0.0.0.13.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->ETCS STM->STM DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-9.0-1	8		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-9.0-2	Odometer		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-9.0-3	5.2.10.1.0-3.0-1.0-9.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-9.0-4	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	ODOMETER
5.2.10.1.0-3.0-1.0-9.0-5	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT	2.0.0.0.2.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OVR JRU DRU		
5.2.10.1.0-3.0-1.0-9.0-6	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.3.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-9.0-7	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-9.0-8	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DRU		
5.2.10.1.0-3.0-1.0-9.0-9	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.12.0.0.0.0.0.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-9.0-10	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.13.0.0.0.0.0.0 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-9.0-11	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.8.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-9.0-12	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-9.0-13	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-9.0-14	5.2.10.1.0-3.0-1.0-9.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-9.0-15	5.2.10.1.0-3.0-1.0-9.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-9.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT	2.0.0.0.11.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OVR JRU DRU		
5.2.10.1.0-3.0-1.0-9.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.14.0.0.0.0.0.0 2.0.0.0.12.0.2.0.2.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-9.0-18	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.13.0.2.0.2.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-10.0-1	9		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-3	5.2.10.1.0-3.0-1.0-10.0-3		False	False	False	Unknown		
5.2.10.1.0-	5.2.10.1.0-3.0-1.0-10.0-4		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-10.0-4								
5.2.10.1.0-3.0-1.0-10.0-5	5.2.10.1.0-3.0-1.0-10.0-5		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-6	5.2.10.1.0-3.0-1.0-10.0-6		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-7	5.2.10.1.0-3.0-1.0-10.0-7		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-8	5.2.10.1.0-3.0-1.0-10.0-8		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-9	s	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.5.0.0.0.0.0.0	TIU COMMAND
5.2.10.1.0-3.0-1.0-10.0-10	s	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.5.0.0.0.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-10.0-11	5.2.10.1.0-3.0-1.0-10.0-11		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-12	5.2.10.1.0-3.0-1.0-10.0-12		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-13	5.2.10.1.0-3.0-1.0-10.0-13		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-14	5.2.10.1.0-3.0-1.0-10.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-15	5.2.10.1.0-3.0-1.0-10.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-10.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		Mode SE not tested
5.2.10.1.0-3.0-1.0-10.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.5.0.0.0.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-10.0-18	5.2.10.1.0-3.0-1.0-10.0-18		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-11.0-1	10		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-11.0-3	5.2.10.1.0-3.0-1.0-11.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-11.0-4	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	TIU STATUS
5.2.10.1.0-3.0-1.0-11.0-5	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.2.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-	x	ETCS	True	True	False	SOM	2.0.0.0.3.0.2.0.2.0.0.0.1.0.0.1.3.	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-11.0-6						ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	0.1.0.1.0	
5.2.10.1.0-3.0-1.0-11.0-7	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-11.0-8	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-11.0-9	x	ETCS	True	True	False	SOM ASU ETCS->STM	6.5.0.0.0.0.0.0.0, 6.12.0.0.0.0.0.0.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.3.	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->ETCS STM->STM DA DE OT OVR JRU DRU	0.1.0.1.0	
5.2.10.1.0- 3.0-1.0- 11.0-10	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.5.0.0.0.0.0.0 6.13.0.0.0.0.0.0 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0- 3.0-1.0- 11.0-11	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.8.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0- 3.0-1.0- 11.0-12	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DA DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-11.0-13	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-11.0-14	5.2.10.1.0-3.0-1.0-11.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-11.0-15	5.2.10.1.0-3.0-1.0-11.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-11.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		Mode SE not tested
5.2.10.1.0-	x	ETCS	True	True	False	SOM	6.5.0.0.0.0.0.0.0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-11.0-17						ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.14.0.0.0.0.0.0	
5.2.10.1.0-3.0-1.0-11.0-18	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.13.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-12.0-1	11		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-2	Emergency Brake command		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-3	5.2.10.1.0-3.0-1.0-12.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-4	5.2.10.1.0-3.0-1.0-12.0-4		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-5	5.2.10.1.0-3.0-1.0-12.0-5		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-12.0-6	5.2.10.1.0-3.0-1.0-12.0-6		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-7	5.2.10.1.0-3.0-1.0-12.0-7		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-8	5.2.10.1.0-3.0-1.0-12.0-8		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-9	5.2.10.1.0-3.0-1.0-12.0-9		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-10	5.2.10.1.0-3.0-1.0-12.0-10		False	True	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-11	5.2.10.1.0-3.0-1.0-12.0-11		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-12	5.2.10.1.0-3.0-1.0-12.0-12		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-13	5.2.10.1.0-3.0-1.0-12.0-13		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-14	5.2.10.1.0-3.0-1.0-12.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-15	5.2.10.1.0-3.0-1.0-12.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-12.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE		Mode SE not tested

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-12.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.4.0.0.0.0.0.0	
5.2.10.1.0-3.0-1.0-12.0-18	5.2.10.1.0-3.0-1.0-12.0-18		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-13.0-1	12		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-13.0-2	Emergency Brake status		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-13.0-3	5.2.10.1.0-3.0-1.0-13.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-13.0-4	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	EMERGENCY BRAKE STATUS

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						JRU DRU		
5.2.10.1.0- 3.0-1.0- 13.0-5	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.2.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0- 3.0-1.0- 13.0-6	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.3.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0- 3.0-1.0- 13.0-7	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-13.0-8	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-13.0-9	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.12.0.0.0.0.0.0.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-13.0-10	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.13.0.0.0.0.0.0.0 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-	x	ETCS	True	True	False	SOM	2.0.0.0.8.0.2.0.2.0.0.0.1.0.0.1.3.	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-13.0-11						ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	0.1.0.1.0	
5.2.10.1.0-3.0-1.0-13.0-12	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0-3.0-1.0-13.0-13	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-13.0-14	5.2.10.1.0-3.0-1.0-13.0-14		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-13.0-15	5.2.10.1.0-3.0-1.0-13.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-13.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.11.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	Mode SE not tested
5.2.10.1.0-3.0-1.0-13.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.4.0.0.0.0.0.0, 6.14.0.0.0.0.0.0.0 2.0.0.0.12.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-13.0-18	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.13.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.10.1.0-3.0-1.0-14.0-1	13		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-2	Service Brake command		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-3	5.2.10.1.0-3.0-1.0-14.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-4	5.2.10.1.0-3.0-1.0-14.0-4		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-5	5.2.10.1.0-3.0-1.0-14.0-5		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-6	5.2.10.1.0-3.0-1.0-14.0-6		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-7	5.2.10.1.0-3.0-1.0-14.0-7		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-8	5.2.10.1.0-3.0-1.0-14.0-8		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-9	5.2.10.1.0-3.0-1.0-14.0-9		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-10	5.2.10.1.0-3.0-1.0-14.0-10		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-11	5.2.10.1.0-3.0-1.0-14.0-11		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-	5.2.10.1.0-3.0-1.0-14.0-12		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-12								
5.2.10.1.0-3.0-1.0-14.0-13	5.2.10.1.0-3.0-1.0-14.0-13		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-14	5.2.10.1.0-3.0-1.0-14.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-15	5.2.10.1.0-3.0-1.0-14.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-14.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU		SERVICE BRAKE COMMAND Mode SE not tested
5.2.10.1.0-3.0-1.0-14.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.4.0.0.0.0.0.0	
5.2.10.1.0-3.0-1.0-14.0-18	5.2.10.1.0-3.0-1.0-14.0-18		False	False	False	Unknown		
5.2.10.1.0-	14		True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-15.0-1								
5.2.10.1.0-3.0-1.0-15.0-2	Service Brake status		True	False	False	Unknown		
5.2.10.1.0-3.0-1.0-15.0-3	5.2.10.1.0-3.0-1.0-15.0-3		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-15.0-4	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	SERVICE BRAKE STATUS
5.2.10.1.0-3.0-1.0-15.0-5	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.2.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-15.0-6	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA	2.0.0.0.3.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-15.0-7	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-15.0-8	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
5.2.10.1.0-3.0-1.0-15.0-9	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT	6.12.0.0.0.0.0.0.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OVR JRU DRU		
5.2.10.1.0- 3.0-1.0- 15.0-10	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	6.13.0.0.0.0.0.0.0 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0- 3.0-1.0- 15.0-11	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.8.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
5.2.10.1.0- 3.0-1.0- 15.0-12	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DRU		
5.2.10.1.0-3.0-1.0-15.0-13	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.10.1.0-3.0-1.0-15.0-14	5.2.10.1.0-3.0-1.0-15.0-14		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-15.0-15	5.2.10.1.0-3.0-1.0-15.0-15		False	False	False	Unknown		
5.2.10.1.0-3.0-1.0-15.0-16	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.11.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	Mode SE not tested
5.2.10.1.0-3.0-1.0-15.0-17	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA	6.4.0.0.0.0.0.0, 6.14.0.0.0.0.0.0.0 2.0.0.0.12.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DE OT OVR JRU DRU		
5.2.10.1.0-3.0-1.0-15.0-18	x	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR JRU DRU	2.0.0.0.13.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.1.0	
5.2.11	5.2.11 ETCS data and Data Entry		False	False	False	Unknown		
5.2.11.1	5.2.11.1 The ETCS On-board STM Control Function shall transmit a subset of ETCS Train Data, ETCS Additional Data and ETCS National Values to the STM (see /4/ SRS Version 2.2.2; SUBSET-026.3; Principles).	ETCS	True	False	False	SOM ASU DE		It is a definition
5.2.11.1.1	5.2.11.1.1 Note: Data may be fixed stored data or manually entered data.		False	False	False	Unknown		
5.2.11.2	5.2.11.2 The ERTMS/ETCS onboard shall transmit a subset of the ETCS train data to all STMs as described below.	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.2.0-1	Train category	ETCS	True	True	False	SOM	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.	The data should be sent to

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						ASU DE	0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	all connected STMs
5.2.11.2.0-2	Train length	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.2.0-3	Deceleration data (referring to the traction/brake models)	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.2.0-4	Maximum permitted speed for the train, taking into account the maximum speed of every vehicle contained in the train.	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
5.2.11.2.0-5	Loading gauge	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.2.0-6	Axle load	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.2.0-7	Power supply accepted by the train	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.2.0-8	Train fitted with airtight system	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0	The data should be sent to all connected STMs

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.2.0	
5.2.11.2.0-9	Train running number	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.2.0	The data should be sent to all connected STMs
5.2.11.2.1	5.2.11.2.1 Note: Extra data for the available STMs are handled in the Specific STM Data Entry Procedure see chapter 5.2.12.		False	False	False	Unknown		
5.2.11.3	5.2.11.3 The ERTMS/ETCS onboard shall transmit a subset of the ETCS additional data and date / time to all STMs as described below.	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.2.0	The data should be sent to all connected STMs
5.2.11.3.0-1	Driver_id	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.2.0	The data should be sent to all connected STMs
5.2.11.3.0-2	ERTMS/ETCS Level	ETCS	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2	The data should be sent to all connected STMs

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Paragraph number	FFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DE	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
5.2.11.3.0-3	ETCS on-board identity	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.3.0-4	Adhesion factor	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.3.0-5	Date and Time (UTC Time)	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5.2.11.4	5.2.11.4 The ERTMS/ETCS onboard shall transmit a subset of the ETCS National / Default Values to all STMs as described below.	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-1	Modification of adhesion factor by driver.	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-2	Shunting mode (permitted) speed limit	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-3	Staff Responsible mode (permitted) speed limit	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0	The data should be sent to all connected STMs

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
5.2.11.4.0-4	On Sight mode (permitted) speed limit	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-5	Unfitted mode (permitted) speed limit	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-6	Release Speed value	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-7	Distance to be used in Roll Away protection, Reverse movement protection and Standstill supervision	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	The data should be sent to all connected STMs

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
5.2.11.4.0-8	Max. speed limit for triggering the override end of authority function	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-9	Permitted speed limit to be supervised when the "override EOA" function is active	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-10	Distance for train trip suppression when override end of authority function is triggered	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-11	Max. time for train trip suppression when override end of authority function is triggered	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	The data should be sent to all connected STMs

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
5.2.11.4.0-12	Distance to be allowed for reversing in Post Trip mode.	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.4.0-13	Max permitted distance to run in Staff Responsible mode.	ETCS	True	True	False	SOM ASU DE	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	The data should be sent to all connected STMs
5.2.11.5	5.2.11.5 The Fixed Values (defined in /4/ SRS Version 2.2.2; SUBSET-026.3; Principles) are not transmitted.		False	False	False	Unknown		
5.2.12	5.2.12 Specific STM data and Data Entry		False	False	False	Unknown		
5.2.12.1	5.2.12.1 The STM shall be allowed to request (nationally) specific STM data from ETCS.	ETCS	True	False	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0.1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0.1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0.2.0.4.1	
5.2.12.2	5.2.12.2 Specific STM data are the national data		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	that are not provided by ETCS data or that cannot be translated from ETCS data.							
5.2.12.2.1	5.2.12.2.1 Note: The entry of Specific STM Data shall be avoided. Where possible, automatic translation shall be implemented.		False	False	False	Unknown		
5.2.12.3	5.2.12.3 Specific STM data shall be requested by STM only. It shall be possible at start-up and later on during mission in order to modify or review train data.	ETCS	True	False	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
5.2.13	5.2.13 Transmission of ETCS air gap messages for STMs		False	False	False	Unknown		
5.2.13.1	5.2.13.1 This subchapter will be only valid if there are ETCS air gap messages for STMs defined within the SRS.		False	False	False	Unknown		depends on specification of ETCS air gap messages for STM in the SRS..
5.2.13.1.1	5.2.13.1.1 Definition: ETCS air gap messages for STMs are messages which are specified within the "/7/ SRS Version 2.2.2; SUBSET-026.7; ERTMS/ETCS language" that have to be forwarded to an STM.		False	False	False	Unknown		
5.2.13.2	5.2.13.2 When the ETCS receives data to be transmitted to an STM the data shall be transmitted by the STM Control Function to the identified STM via the STM control connection.	ETCS	True	False	False	ETCS->STM STM->ETCS STM->STM DA		There are not yet such packets defined within the SRS.
5.2.13.3	5.2.13.3 If data to be forwarded to an STM are received by the ETCS On-board then the STM Control Function shall add an odometer reading of the LRBG to the transmitted data.	ETCS	True	False	False	ETCS->STM STM->ETCS STM->STM DA		There are not yet such packets defined within the SRS.
5.2.13.4	5.2.13.4 The odometer reading shall correspond to the location of the LRBG using the FFFIS STM	ETCS	True	False	False	ETCS->STM STM->ETCS		There are not yet such packets defined within the

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	odometer function as common reference (nominal odometer value).					STM->STM DA		SRS.
5.2.14	5.2.14 Supervision (for European STM only)		False	False	False	Unknown		
5.2.14.1	5.2.14.1 This function shall perform the train movement supervision according to the STM profile transmitted by the STM (see chapter 9).		False	False	False	Unknown		European STM is TBD
6	6 Technical Modes of ETCS		False	False	False	Unknown		
6.1	6.1		False	False	False	Unknown		
6.1.1	6.1.1		False	False	False	Unknown		
6.1.1.1	6.1.1.1 This chapter intends to highlight some already existing requirements from /1/ SUBSET-026; SRS Version 2.2.2 that are important for the understanding of the interaction between the STMs and the ETCS onboard.		False	False	False	Unknown		
6.1.2	6.1.2 Sleeping and Non-leading modes		False	False	False	Unknown		
6.1.2.1	6.1.2.1 The ETCS onboard can be in Sleeping under Level STM.		False	False	False	Unknown		
6.1.2.2	6.1.2.2 The ETCS onboard can be in Non-leading under Level STM.		False	False	False	Unknown		
6.1.2.3	6.1.2.3 ETCS onboard allows access to train interface functions in Sleeping and/or Non-leading mode. This is requested by some target systems.		False	False	False	Unknown		
6.1.2.4	6.1.2.4 The ETCS onboard is in mode Sleeping or Non-Leading because it is in a slave engine. This is independent from the ETCS Level.		False	False	False	Unknown		
6.1.2.5	6.1.2.5 So when ETCS onboard in mode Sleeping or Non-Leading enters into a level STM area, the ETCS onboard remains in its current technical mode, but it activates the corresponding STM. This allows the STM to		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	perform national functions in these ETCS technical modes.							
6.1.3	6.1.3 Stand By mode		False	False	False	Unknown		
6.1.3.1	6.1.3.1 The ETCS onboard can be in Stand By under Level STM.		False	False	False	Unknown		
6.1.3.2	6.1.3.2 The ETCS onboard while in the technical mode Stand By performs standstill supervision.		False	False	False	Unknown		
6.1.3.3	6.1.3.3 An STM may be active while the ETCS onboard is in the technical mode Stand By and under the corresponding STM Level, but according to the standstill supervision of the ETCS onboard it is not possible to move the train.		False	False	False	Unknown		
7	7 STM MANAGER SYSTEM (SMS)		False	False	False	Unknown		
7.1	7.1 Scope		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
7.1.1	7.1.1		False	False	False	Unknown		
7.1.1.1	7.1.1.1 The scope of this chapter is to define how the STM (the "state machine" internal to the STM) handles its state and how the ETCS On-board (the STM control function) handles the states of the connected STM(s).		False	False	False	Unknown		
7.2	7.2 General principles		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
7.2.1	7.2.1		False	False	False	Unknown		
7.2.1.1	7.2.1.1 The scope of the "General Principles" chapter is to give an overview of the relations between STMs and ETCS On-board. This chapter contains no requirements.		False	False	False	Unknown		
7.2.1.2	7.2.1.2 The number and identification of the STMs (and STM Groups) connected to the ETCS On-board is known by ETCS On-board when STMs connect themselves to the "STM		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	control function".							
7.2.1.3	7.2.1.3 The STM reports every change of its state to the STM control function, except if the connection with "STM control function" is closed due to a connection failure.		False	False	False	Unknown		
7.2.1.4	7.2.1.4 STM can either be from European or National type, the STM type is announced by the STM itself at the initialisation phase as identification.		False	False	False	Unknown		
7.2.1.5	7.2.1.5 Following the STM type the responsibilities of the STM and of the ERTMS/ETCS on-board are different and only have effect in the "Data Available" state (see /4/ SRS Version 2.2.2; SUBSET-026.3; Principles)		False	False	False	Unknown		
7.3	7.3 Requirements on STM		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
7.3.1	7.3.1 STM states definition		False	False	False	Unknown		
7.3.1.1	7.3.1.1 No Power (NP)		False	False	False	Unknown		
7.3.1.1.1	7.3.1.1.1 The NP state means that the STM is unpowered.		False	False	False	Unknown		
7.3.1.1.1.1	7.3.1.1.1.1 Note: This is not a "software" state since no STM software is running when the STM is unpowered.		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
7.3.1.2	7.3.1.2 Power On (PO)		False	False	False	Unknown		
7.3.1.2.1	7.3.1.2.1 This state is the default state immediately entered by the STM after the STM is switched on.		False	False	False	Unknown		
7.3.1.2.2	7.3.1.2.2 Once in PO state, the STM shall perform its self-tests and synchronisation of the Safe Time Layer.	STM National STM European	True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.1.2.3	7.3.1.2.3 Once in PO state, the STM shall establish a communication session with the ETCS on-board STM Control function as soon as possible.	STM National STM European	True	True	False	SOM ASU	2.0.0.0.2.0.2.0.1.0 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	Only the establishment of the connection can be tested. As soon as possible is not possible to test
7.3.1.2.3.1	7.3.1.2.3.1 Note: The term "as soon as possible" is used in the above requirement to take into account the fact that some STMs may have to wait for their self-test result before being able to start the communication session with ETCS, while other STMs may immediately start the communication session.		False	False	False	Unknown		
7.3.1.2.4	7.3.1.2.4 The STM shall send its type (European or National) when the STM has established the connection to the STM Control Function.	STM National STM European	True	True	False	SOM ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.1.2.5	7.3.1.2.5 When the STM has established the connection to the STM Control Function, the STM shall send a "Specific STM Data Need" information to the STM Control Function (see 13.1.1.1.10).	STM National STM European	True	True	False	SOM ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.1.2.6	7.3.1.2.6 The STM shall send its product identity (vendor id, specific supplier software and hardware version) once the connection from the STM to the STM Control Function is established.	STM National STM European	True	True	False	SOM ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.1.2.7	7.3.1.2.7 It is not mandatory for the ETCS to process the STM product identity. The ETCS may use this STM product identity for diagnostics or recording purposes or for filtering some STMs versions.		False	False	False	Unknown		
7.3.1.2.8	7.3.1.2.8 Once the STM knows the bus addresses and safety levels of all available ETCS On-board functions (see 7.4.1.1.11), the STM shall establish a connection with all required ETCS On-board functions.	STM National STM European	True	True	False	SOM ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.1.2.9	7.3.1.2.9 Once all connections are established, the STM shall request CO state to the STM control function.	STM National STM European	True	True	False	SOM ASU	2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.1.3	7.3.1.3 Configuration (CO)		False	False	False	Unknown		
7.3.1.3.1	7.3.1.3.1 The STM state "Configuration" is used for the exchange of configuration data between STM and ETCS On-board. "Configuration data" means data that is necessary for the national operation.		False	False	False	Unknown		
7.3.1.3.2	7.3.1.3.2 List of exchanged data		False	False	False	Unknown		
7.3.1.3.2.1	7.3.1.3.2.1 Data from ETCS On-board to STMs	ETCS	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.1.3.2.1.0-1	ETCS data (see chapter 5.2.11)	ETCS	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.3.1.3.2.1.0-2	Odometer parameters (See Chapter 8.7)	ETCS	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.3.1.3.2.1.0-3	Status / availability of the train interface FFFIS STM signals (TIU)	ETCS	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.3.1.3.2.1.0-4	Brake interface (BIU)		False	False	False	Unknown		Title which contains no requirement. See linked bullets
7.3.1.3.2.1.0-5	Status / Availability of the Service Brake command	ETCS	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.3.1.3.2.1.0-6	Status / Availability of the Emergency and Service Brake States	ETCS	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.3.1.3.2.1.0-7	Parameter(s):		False	False	False	Unknown		
7.3.1.3.2.1.0-8	Maximum time delay for the ETCS to process the STM Emergency and the STM Service Brake commands. This is the time from receiving the	ETCS	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	brake command from the STM until the ETCS commands the brake						0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
7.3.1.3.3	7.3.1.3.3 Once the exchange of configuration data is finished, and if the STM has received enough configuration information thanks to this process, then the STM shall request CS state to the STM control function.	STM National STM European	True	True	False	SOM ASU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0	
7.3.1.3.4	7.3.1.3.4 If an STM in Configuration State detects that the ETCS On-board is in the technical mode Non-Leading or Sleeping, the STM shall request to go to CS state.	STM National STM European	True	True	False	SOM ASU	1.1.0.0.1.0.1.1.0.1.0 1.2.0.1.1.0.1.0 1.1.0.0.1.0.2.0	
7.3.1.3.4.1	7.3.1.3.4.1 Justification: This allows STM operation on Non-Leading or Sleeping cab without data entry.		False	False	False	Unknown		
7.3.1.3.5	7.3.1.3.5 Once the exchange of configuration data is finished, and if the STM needs more information than what it has received thanks to this process, then the STM shall request DE state to the STM control function.	STM National STM European	True	True	False	SOM ASU	2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2	
7.3.1.3.6	7.3.1.3.6 When an STM exits CO state, this STM	ETCS STM National STM European	True	True	False	SOM ASU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
7.3.1.3.6.0-1	shall have the possibility to close the connection with the JRU (up to the STM to decide it or not).	ETCS	True	True	False	SOM ASU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	STM internal, ETCS should support the number of maintained connections
7.3.1.3.6.0-2	shall have the possibility to close the connection with the DRU (up to the STM to decide it or not).	ETCS	True	True	False	SOM ASU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	STM internal, ETCS should support the number of maintained connections
7.3.1.3.6.0-3	shall have the possibility to close the connection with the TIU (up to the STM to decide it or not).	ETCS	True	True	False	SOM ASU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	STM internal, ETCS should support the number of maintained connections
7.3.1.3.6.0-4	shall have the possibility to close the	ETCS	True	True	False	SOM	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.	STM internal, ETCS should

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	connection with the BIU (up to the STM to decide it or not).					ASU	0.1.0.1.0	support the number of maintained connections
7.3.1.3.6.0-5	shall maintain the connection with the STM Control Function.	STM National STM European	True	True	False	SOM ASU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	ETCS should support the number of maintained connections
7.3.1.3.6.0-6	shall close the connections with all other ETCS On-board functions	STM National STM European	True	True	False	SOM ASU	2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	ETCS should support the number of maintained connections
7.3.1.4	7.3.1.4 Data Entry (DE)		False	False	False	Unknown		
7.3.1.4.1	7.3.1.4.1 The state DE is required for any STM that needs Specific STM Data entry information in order to have all the required national information for operating the train with the STM.		False	False	False	Unknown		
7.3.1.4.1.1	7.3.1.4.1.1 Note: This state is only entered once at the start up process. If the ETCS data entry is requested during the mission, the Specific STM Data Entry will be requested by the STM at any possible state without any transition to Data Entry State.		False	False	False	Unknown		
7.3.1.4.2	7.3.1.4.2 In the state DE the Specific STM Data Entry procedure (see chapter 13.1.1) shall be performed.	ETCS STM National STM European	True	False	False	SOM ASU DE		This is covered by § in reference.
7.3.1.4.3	7.3.1.4.3 Once specific STM data entry is completed, the STM shall request CS state to the STM control function.	STM National STM European	True	True	False	SOM ASU DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1	
7.3.1.5	7.3.1.5 Cold Standby (CS)		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.1.5.1	7.3.1.5.1 Being in the state CS, the STM was initialised, tested, configured and is in possession of all required information for operating, but not able to receive a message from the trackside, because the reception is turned off.		False	False	False	Unknown		
7.3.1.5.2	7.3.1.5.2 In the case the STM receives the ETCS Train Data, the STM shall perform the relevant exchange of data with the ETCS STM Control Function (see chapter13.1.1).	STM National STM European	True	False	False	SOM ASU DE		This is covered by § in reference.
7.3.1.6	7.3.1.6 Hot Standby (HS)		False	False	False	Unknown		
7.3.1.6.1	7.3.1.6.1 Being in the state HS, the STM shall be able to process the information from or to the national trackside.	STM National STM European	True	False	False	Unknown		
7.3.1.6.1.1	7.3.1.6.1.1 Note: In HS state, when receiving national trackside information, the STM shall treat this information to be prepared to take in charge the train movement supervision once its state will switch to DA state.		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
7.3.1.6.2	7.3.1.6.2 The STM in HS shall have the possibility to send a "STM max speed" to the STM control function.	STM National STM European	True	True	False	ETCS->STM STM->STM		STM internal and ETCS requirement covered by 7.4.2.2.1
7.3.1.6.2.1	7.3.1.6.2.1 Note: This "STM max speed" is to allow the STM, for national reasons unknown to the ETCS On-board or ERTMS Trackside, to request a given train speed at the level transition border in order to have a smooth transition.		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
7.3.1.6.3	7.3.1.6.3 The STM in HS shall have the possibility to send an "STM system speed"	STM National	True	True	False	ETCS->STM STM->STM		STM internal and ETCS requirement covered by

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	together with an "STM system distance" to the STM control function.	STM European						7.4.2.2.4
7.3.1.6.3.1	7.3.1.6.3.1 Note: This "STM system speed" together with the "STM system distance" is to allow the STM, to request a given train speed at a given position ("STM system distance") before the level transition border in order to be able to detect its national trackside.		False	False	False	Unknown		
7.3.1.6.4	7.3.1.6.4 In the case the STM receives the ETCS Train Data, the STM shall perform the relevant exchange of data with the ETCS STM Control Function (see chapter13.1.1).	STM National STM European	True	False	False	DE		This is covered by § in reference.
7.3.1.7	7.3.1.7 Data Available (DA)		False	False	False	Unknown		
7.3.1.7.1	7.3.1.7.1 In DA state, a National STM is responsible for the train movement supervision, according to the received national trackside information. A European STM is also responsible for the train movement supervision, according to the received national trackside information, but some parts of the calculations are performed by the ETCS On-board.		False	False	False	Unknown		
7.3.1.7.2	7.3.1.7.2 A STM in "Data Available" state can have two different behaviours, respects to its type: National or European (As specified in Subset-026).		False	False	False	Unknown		
7.3.1.7.2.1	7.3.1.7.2.1 Note: a European STM translates the national information into a STM profile (MA, SSP & gradients) and lets the ERTMS/ETCS on-board (in SE mode) supervise the train movement (EB brake when overpassing the EOA).		False	False	False	Unknown		
7.3.1.7.2.2	7.3.1.7.2.2 Note: a National STM uses the national air-gap information for supervising the train movement according to the national rules (at least EB command and release) and the ERTMS/ETCS on-board (in SN mode) acts as an		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	access provider to the ERTMS/ETCS functions (e. g. DMI, odometer, JRU & TIU).							
7.3.1.7.3	7.3.1.7.3 A European STM shall provide the STM profile (MA, SSP & Gradients, as defined in Subset-026, v2.2.2, chapter 4.8.3.2) to the ETCS on-board.	STM European	True	False	False	DA		European is still to be defined.
7.3.1.7.4	7.3.1.7.4 A European STM shall acknowledge the EB command (issued by ERTMS/ETCS on-board when overpassing STM EOA) with the transmission of the new STM profile.	STM European	True	False	False	DA		
7.3.1.7.5	7.3.1.7.5 In the case the STM receives the ETCS Train Data, the STM shall perform the relevant exchange of data with the ETCS STM Control Function (see chapter13.1.1).	STM National STM European	True	False	False	DE		This is covered by § in reference.
7.3.1.8	7.3.1.8 Failure (FA)		False	False	False	Unknown		
7.3.1.8.1	7.3.1.8.1 Being in this state, the STM is not able to work any more, due to internal or external reasons.		False	False	False	Unknown		
7.3.1.8.1.1	7.3.1.8.1.1 Note: STM failures that do not prevent the STM to perform the train supervision according to the national rules are handled internally by the STM and do not lead to FA state.		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
7.3.1.8.2	7.3.1.8.2 If the STM has a direct access to the emergency brake, the STM shall not command braking via this direct access while in FA state.	STM National STM European	True	False	True	FA		Internal to the STM.
7.3.1.8.3	7.3.1.8.3 In FA state the STM shall report, if possible, FA state to JRU and any national recorder.		True	False	True	FA		Internal to the STM.
7.3.1.8.4	7.3.1.8.4 The STM shall isolate itself from the bus after reporting its failed state to the ETCS On-board STM Control Function and to the JRU.	STM National STM European	True	False	True	JRU FA		Internal to the STM.

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.2	7.3.2 STM States transitions table		False	False	False	Unknown		
7.3.2.1	7.3.2.1 Transitions table for STM	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM FA	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.2, 10A.0.1.0.2.0.1.0.2.0.2.0.3.0 .2.0.4.1 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0	
7.3.2.1.0-1.0-1.0-1	NP	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-1.0-2	< 15	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-1.0-3	< 15	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-1.0-4	< 15	STM National STM European	True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.2.1.0-1.0-1.0-5	< 15	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-1.0-6	< 15	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-1.0-7	< 15	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-1.0-8	< 15	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-2.0-1	1 >	STM National STM European	True	True	False	SOM ASU	2.0.0.0.2.0.2.0.1.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
7.3.2.1.0-1.0-2.0-2	PO	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-2.0-3	7.3.2.1.0-1.0-2.0-3		False	False	False	Unknown		

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7.3.2.1.0-1.0-2.0-4	7.3.2.1.0-1.0-2.0-4		False	False	False	Unknown		
7.3.2.1.0-1.0-2.0-5	7.3.2.1.0-1.0-2.0-5		False	False	False	Unknown		
7.3.2.1.0-1.0-2.0-6	7.3.2.1.0-1.0-2.0-6		False	False	False	Unknown		
7.3.2.1.0-1.0-2.0-7	7.3.2.1.0-1.0-2.0-7		False	False	False	Unknown		
7.3.2.1.0-1.0-2.0-8	7.3.2.1.0-1.0-2.0-8		False	False	False	Unknown		
7.3.2.1.0-1.0-3.0-1	7.3.2.1.0-1.0-3.0-1		False	False	False	Unknown		
7.3.2.1.0-1.0-3.0-2	2 >	STM National STM European	True	True	False	SOM ASU	2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
7.3.2.1.0-1.0-3.0-3	CO	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-3.0-4	7.3.2.1.0-1.0-3.0-4		False	False	False	Unknown		
7.3.2.1.0-1.0-3.0-5	7.3.2.1.0-1.0-3.0-5		False	False	False	Unknown		
7.3.2.1.0-1.0-3.0-6	7.3.2.1.0-1.0-3.0-6		False	False	False	Unknown		
7.3.2.1.0-1.0-3.0-7	7.3.2.1.0-1.0-3.0-7		False	False	False	Unknown		
7.3.2.1.0-1.0-3.0-8	7.3.2.1.0-1.0-3.0-8		False	False	False	Unknown		
7.3.2.1.0-1.0-4.0-1	7.3.2.1.0-1.0-4.0-1		False	False	False	Unknown		

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7.3.2.1.0-1.0-4.0-2	7.3.2.1.0-1.0-4.0-2		False	False	False	Unknown		
7.3.2.1.0-1.0-4.0-3	3 >	STM National STM European	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1	
7.3.2.1.0-1.0-4.0-4	DE	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-4.0-5	7.3.2.1.0-1.0-4.0-5		False	False	False	Unknown		
7.3.2.1.0-1.0-4.0-6	7.3.2.1.0-1.0-4.0-6		False	False	False	Unknown		
7.3.2.1.0-1.0-4.0-7	7.3.2.1.0-1.0-4.0-7		False	False	False	Unknown		
7.3.2.1.0-1.0-4.0-8	7.3.2.1.0-1.0-4.0-8		False	False	False	Unknown		
7.3.2.1.0-1.0-5.0-1	7.3.2.1.0-1.0-5.0-1		False	False	False	Unknown		
7.3.2.1.0-1.0-5.0-2	7.3.2.1.0-1.0-5.0-2		False	False	False	Unknown		
7.3.2.1.0-1.0-5.0-3	4a >	STM National STM European	True	True	False	SOM ASU	2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 1.1.0.0.1.0.2.0	
7.3.2.1.0-1.0-5.0-4	4a >	STM National STM European	True	True	False	SOM ASU	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1	
7.3.2.1.0-	CS	STM	True	False	False	Unknown		

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1.0-5.0-5		National STM European						
7.3.2.1.0-1.0-5.0-6	< 4a	STM National STM European	True	True	False	ETCS->STM STM->STM	3a.0.0.1.2.1.0.1.0.0.0, 5a.0.0.3.1.0.1.0.0.0	
7.3.2.1.0-1.0-5.0-7	< 4a < 4b	STM National STM European	True	True	False	STM->ETCS STM->STM	4a.0.0.0.0.1.0, 4b.0.0.0.0.1.0, 4c.0.0.0.0.1.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.2.1.0-1.0-5.0-8	7.3.2.1.0-1.0-5.0-8		False	False	False	Unknown		
7.3.2.1.0-1.0-6.0-1	7.3.2.1.0-1.0-6.0-1		False	False	False	Unknown		
7.3.2.1.0-1.0-6.0-2	7.3.2.1.0-1.0-6.0-2		False	False	False	Unknown		
7.3.2.1.0-1.0-6.0-3	7.3.2.1.0-1.0-6.0-3		False	False	False	Unknown		
7.3.2.1.0-1.0-6.0-4	7.3.2.1.0-1.0-6.0-4		False	False	False	Unknown		
7.3.2.1.0-1.0-6.0-5	6 >	STM National STM European	True	True	False	SOM ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.2.2.0.0.0, 5a.0.0.1.2.1.0.1.0.0.0, 5a.0.0.3.1.0.1.0.0.0, 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0	
7.3.2.1.0-1.0-6.0-6	HS	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-6.0-7	7.3.2.1.0-1.0-6.0-7		False	False	False	Unknown		
7.3.2.1.0-1.0-6.0-8	7.3.2.1.0-1.0-6.0-8		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-6.0-8								
7.3.2.1.0-1.0-7.0-1	7.3.2.1.0-1.0-7.0-1		False	False	False	Unknown		
7.3.2.1.0-1.0-7.0-2	7.3.2.1.0-1.0-7.0-2		False	False	False	Unknown		
7.3.2.1.0-1.0-7.0-3	7.3.2.1.0-1.0-7.0-3		False	False	False	Unknown		
7.3.2.1.0-1.0-7.0-4	7.3.2.1.0-1.0-7.0-4		False	False	False	Unknown		
7.3.2.1.0-1.0-7.0-5	9 >	STM National STM European	True	True	False	ETCS->STM STM->STM	3c.1.0.4.2.0.1.0, 3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2	
7.3.2.1.0-1.0-7.0-6	9 >	STM National STM European	True	True	False	SOM ETCS->STM STM->STM	3c.1.0.1.0.1.3.0.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0, 5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2. 1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1. 1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2. 0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2. 1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0, 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0	
7.3.2.1.0-1.0-7.0-7	DA	STM National STM European	True	False	False	Unknown		
7.3.2.1.0-1.0-7.0-8	7.3.2.1.0-1.0-7.0-8		False	False	False	Unknown		
7.3.2.1.0-1.0-8.0-1	7.3.2.1.0-1.0-8.0-1		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.2.1.0-1.0-8.0-2	16 >17 >	STM National STM European	True	True	False	FA	9a.1.0	
7.3.2.1.0-1.0-8.0-3	16 >17 >	STM National STM European	True	True	False	FA	9b.1.0	
7.3.2.1.0-1.0-8.0-4	16 >17 >	STM National STM European	True	True	False	FA	9c.1.0	
7.3.2.1.0-1.0-8.0-5	16 >17 >	STM National STM European	True	True	False	FA	9d.1.0	
7.3.2.1.0-1.0-8.0-6	16 >17 >	STM National STM European	True	True	False	FA	9e.1.0	
7.3.2.1.0-1.0-8.0-7	16 >17 >	STM National STM European	True	True	False	FA	9f.1.0	
7.3.2.1.0-1.0-8.0-8	FA	STM National STM European	True	False	False	Unknown		
7.3.2.2	7.3.2.2 Transitions conditions table		False	True	False	SOM ASU ETCS->STM		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->ETCS STM->STM FA		
7.3.2.2.1	7.3.2.2.1 Note: This table only contains the event(s) that triggers the transition. It does not describe the reasons why this event(s) happens.		False	False	False	Unknown		
7.3.2.2.1.0-1.0-1.0-1	Condition Id		False	False	False	Unknown		
7.3.2.2.1.0-1.0-1.0-2	Content of the conditions		False	False	False	Unknown		
7.3.2.2.1.0-1.0-2.0-1	1	STM National STM European	True	True	False	SOM ASU	2.0.0.0.2.0.2.0.1.0 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.2.2.1.0-1.0-2.0-2	STM is powered on	STM National STM European	True	True	False	SOM ASU	2.0.0.0.2.0.2.0.1.0 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.2.2.1.0-1.0-3.0-1	2	STM National STM European	True	True	False	SOM ASU	2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.2.2.1.0-	ETCS order "Configuration"	STM	True	True	False	SOM	2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-3.0-2		National STM European				ASU	2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
7.3.2.2.1.0-1.0-4.0-1	3	STM National STM European	True	True	False	SOM ASU	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1	
7.3.2.2.1.0-1.0-4.0-2	ETCS order "Data Entry"	STM National STM European	True	True	False	SOM ASU	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1	
7.3.2.2.1.0-1.0-5.0-1	4a	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM	3a.0.0.1.2.1.0.1.0.0.0, 4a.0.0.0.0.0.1.0, 4b.0.0.0.0.1.0, 4c.0.0.0.0.1.0, 5a.0.0.1.2.1.0.1.0.0.0, 5a.0.0.3.1.0.1.0.0.0, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 1.1.0.0.1.0.2.0	
7.3.2.2.1.0-	ETCS unconditional order "Cold Standby"	STM	True	True	False	SOM	3a.0.0.1.2.1.0.1.0.0.0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-5.0-2		National STM European				ASU ETCS->STM STM->ETCS STM->STM	5a.0.0.1.2.1.0.1.0.0.0, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 1.1.0.0.1.0.2.0	
7.3.2.2.1.0-1.0-6.0-1	4b	STM National STM European	True	True	False	STM->STM	5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.2.2.1.0-1.0-6.0-2	ETCS conditional order "Cold Standby"	STM National STM European	True	True	False	STM->STM	5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.2.2.1.0-1.0-7.0-1	5		False	False	False	Unknown		
7.3.2.2.1.0-1.0-7.0-2	<i>Intentionally deleted</i>		False	False	False	Unknown		
7.3.2.2.1.0-1.0-8.0-1	6	STM National STM European	True	True	False	SOM ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.2.2.0.0.0, 5a.0.0.1.1.1.0.0.0, 5a.0.0.2.2.0.0.0, 5a.0.0.1.2.1.0.1.0.0.0, 5a.0.0.3.1.0.1.0.0.0	
7.3.2.2.1.0-1.0-8.0-2	ETCS order "Hot Standby"	STM National STM European	True	True	False	SOM ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.2.2.0.0.0, 5a.0.0.1.1.1.0.0.0, 5a.0.0.2.2.0.0.0, 5a.0.0.1.2.1.0.1.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.2.2.1.0-1.0-9.0-1	7		False	False	False	Unknown		
7.3.2.2.1.0-1.0-9.0-2	<i>Intentionally deleted</i>		False	False	False	Unknown		
7.3.2.2.1.0-1.0-10.0-1	8		False	False	False	Unknown		
7.3.2.2.1.0-1.0-10.0-2	<i>Intentionally deleted</i>		False	False	False	Unknown		
7.3.2.2.1.0-1.0-11.0-1	9	STM National STM European	True	True	False	SOM ETCS->STM STM->STM	3c.1.0.1.0.1.3.0.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0, 3c.1.0.4.2.0.1.0, 3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2. 1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1. 1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2. 0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2. 1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.2.2.1.0-1.0-11.0-2	ETCS order "Data Available"	STM National STM European	True	True	False	SOM ETCS->STM STM->STM	3c.1.0.1.0.1.3.0.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0, 3c.1.0.4.2.0.1.0, 3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2. 1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1. 1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2. 0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2. 1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.2.2.1.0-1.0-12.0-1	10		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.2.2.1.0-1.0-12.0-2	<i>Intentionally deleted</i>		False	False	False	Unknown		
7.3.2.2.1.0-1.0-13.0-1	11		False	False	False	Unknown		
7.3.2.2.1.0-1.0-13.0-2	<i>Intentionally deleted</i>		False	False	False	Unknown		
7.3.2.2.1.0-1.0-14.0-1	12		False	False	False	Unknown		
7.3.2.2.1.0-1.0-14.0-2	<i>Intentionally deleted</i>		False	False	False	Unknown		
7.3.2.2.1.0-1.0-15.0-1	13		False	False	False	Unknown		
7.3.2.2.1.0-1.0-15.0-2	<i>Intentionally deleted</i>		False	False	False	Unknown		
7.3.2.2.1.0-1.0-16.0-1	14		False	False	False	Unknown		
7.3.2.2.1.0-1.0-16.0-2	<i>Intentionally deleted</i>		False	False	False	Unknown		
7.3.2.2.1.0-1.0-17.0-1	15	STM National STM European	True	False	False	Unknown		
7.3.2.2.1.0-1.0-17.0-2	STM is powered off	STM National STM European	True	False	False	Unknown		
7.3.2.2.1.0-1.0-18.0-1	16	STM National STM European	True	True	False	FA	9a.1.0, 9b.1.0, 9c.1.0, 9d.1.0, 9e.1.0, 9f.1.0	
7.3.2.2.1.0-1.0-18.0-2	ETCS order "Failure"	STM National STM	True	True	False	FA	9a.1.0, 9b.1.0, 9c.1.0, 9d.1.0, 9e.1.0, 9f.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		European						
7.3.2.2.1.0-1.0-19.0-1	17	STM National STM European	True	False	False	FA		
7.3.2.2.1.0-1.0-19.0-2	The STM decides itself to go in FA state	STM National STM European	True	False	False	FA		
7.3.3	7.3.3 Requirements linked to STM States transitions		False	False	False	Unknown		
7.3.3.1	7.3.3.1 When an STM in DA state receives a "conditional CS state transition order", the STM shall be allowed to stay in DA state as long as a national trip situation is processed by this STM.	ETCS	True	True	False	STM->STM	5c1.0.0.2.2.0, 5c1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.3.1.1	7.3.3.1.1 Justification: When a level transition border is passed, an STM may have to stay active after receiving a deactivation order because the STM is currently processing a national trip situation.		False	False	False	Unknown		
7.3.3.2	7.3.3.2 When an STM in DA state receives a "conditional CS state transition order" and is not going to change to CS state as soon as possible due to a national trip situation (see 7.3.3.1), the STM shall send a "TRIP" message to the STM Control Function	STM National STM European	True	True	False	STM->STM	5c1.0.0.2.2.0, 5c1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.3.2.0-1	Immediately after the STM has received the "conditional CS state transition order, and	STM National STM European	True	True	False	STM->STM	5c1.0.0.2.2.0, 5c1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.3.2.0-2	(after sending the first "TRIP" message) every 5 seconds.	STM National	True	True	False	STM->STM	5c1.0.0.2.2.0, 5c1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		STM European						
7.3.3.2.1	7.3.3.2.1 Note: The STM shall send the "TRIP" messages with a cycle time of 5 seconds in order to fulfil the time-out check of 10 seconds starting with sending the "conditional CS state transition order" within the STM Control Function.	ETCS	True	False	False	STM->ETCS STM->STM		
7.3.3.3	7.3.3.3 State Transition Sequence Chart:		False	False	False	Unknown		
7.3.3.3.0-1			False	False	False	Unknown		
7.3.3.3.0-1.0-1			False	False	False	Unknown		Figures are not requirements.
7.3.4	7.3.4 General STM requirements		False	False	False	Unknown		
7.3.4.1	7.3.4.1 The STM shall always turn off its antenna transmission: the antenna shall not energise trackside equipment, and shall not read trackside data, and shall not transmit data to trackside, except	STM National STM European	True	False	False	Unknown		STM internal
7.3.4.1.0-1	in HS and DA state,	STM National STM European	True	False	False	Unknown		STM internal
7.3.4.1.0-2	in CS state as long as the train is on its national trackside after deactivation by a level transition, and	STM National STM European	True	False	False	Unknown		STM internal
7.3.4.1.0-3	for test purpose.	STM National STM European	True	False	False	Unknown		STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.3.4.1.1	7.3.4.1.1 Note: When exiting DA or HS state (due to the exit of the level STM area, it may happen that the national trackside goes further than the level transition border. In this case, even if the STM is already in CS state, the STM shall have the possibility to continue to communicate with its national trackside as long as the train is located on the national trackside.		False	False	False	Unknown		STM internal
7.3.4.1.2	7.3.4.1.2 If the STM detects an internal failure that cannot be handled according to the national rules, the STM shall change to "Failure" state.	STM National STM European	True	False	False	SOM ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA		STM internal
7.3.4.1.3	7.3.4.1.3 Note: Failure that can be handled according to national rules (e. g. consistency of national air-gap information) may not lead to a change to "Failure" state but to a national degraded mode.		True	False	False	Unknown		
7.3.4.2	7.3.4.2 If the STM receives from the ETCS On-board a state transition order, which is not allowed by the state transition table, then the STM shall go in FA state.	STM National STM European	True	False	True	SOM ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA		
7.3.4.3	7.3.4.3 The STM shall report its NID_STM to any ETCS Function	STM National STM European	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM		This requirement is fulfilled by the specification of subset-058: NID_STM is included in the header of every telegram

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DA DE OT OVR FA		
7.3.4.3.0-1	when the connection between the STM and the ETCS Function is established, and	STM National STM European	True	False	False	SOM ASU ETCS->STM STM->STM		
7.3.4.3.0-2	with each transmitted application message from the STM to the ETCS Function.	STM National STM European	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA		
7.3.4.4	7.3.4.4 The STM shall report its current state to any ETCS Function	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA	3a.0.0.1.1.1.0.0.0, 3a.0.0.2.2.0.0.0, 3c.1.0.1.0.1.3.0.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0, 3c.1.0.4.2.0.1.0, 3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 4a.0.0.0.0.1.0, 4b.0.0.0.0.1.0, 4c.0.0.0.0.1.0, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.2, 10A.0.1.0.2.0.1.0.2.0.2.0.3.0 .2.0.4.1, 5a.0.0.3.1.0.1.0.0.0,	In addition the STM State shall be sent to the STM control Function whenever the STM state changes

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 1.1.0.0.1.0.1.1.0.1.0 1.2.0.1.1.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2.0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2.1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.3.4.4.0-1	when the connection between the STM and the ETCS Function is established, and	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.2.2.0.0.0, 3c.1.0.4.2.0.1.0, 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.3.4.4.0-2	with each transmitted application message from the STM to the ETCS Function.	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA	6.6.1.2.3.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DE OT OVR FA		
7.3.4.4.1	7.3.4.4.1 Exception: The FA state shall be reported if possible. Due to a failure of the STM itself it may not be possible to report the FA state.		True	False	False	Unknown		
7.3.4.5	7.3.4.5 It shall not be mandatory for the STM to process the ETCS product identity (see chapter 7.4.1.1.5). The STM may use this ETCS product identity for diagnostics or recording purposes or for filtering some ETCS versions.		False	False	False	Unknown		
7.4	7.4 Requirements on ETCS On-board		False	False	False	Unknown		
7.4.1	7.4.1 STM control function - "STM MANAGER SYSTEM" part		False	False	False	Unknown		
7.4.1.1	7.4.1.1 Forewords		False	False	False	Unknown		
7.4.1.1.1	7.4.1.1.1 The present chapter does not specify the whole STM control function, but only the part of the STM control function that manages the states of the connected STM(s).		False	False	False	Unknown		
7.4.1.1.2	7.4.1.1.2 For more information on the ETCS On-board behaviour related to STMs, please refer to /1/ SUBSET-026; SRS Version 2.2.2: chapter4.4.16 "STM European (SE) mode" and chapter4.4.17 "STM National (SN) mode".		False	False	False	Unknown		
7.4.1.1.3	7.4.1.1.3 The STM Control Function shall maintain a list of "connected" STMs, which includes all STMs that have an established connection to the "STM control function". This list shall be used for the selection of the STM by the driver during the Start of Mission procedure.	ETCS	True	True	False	SOM	1.1.0.0.1.0.1.1.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.1.0.2.0 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.1.4	7.4.1.1.4 The STM Control Function (in sleeping	ETCS	True	True	False	SOM	1.1.0.0.2.0.1.0.1.1.0.0.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	engine also) shall maintain a list of "available" STMs, which includes all STMs that have an established connection to the "STM control function" and report either CS, HS or DA state. This list shall be used for						1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.1.4.0-1	the selection of the STM at the transition border and	ETCS	True	True	False	ETCS->STM STM->STM	5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2.0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2.1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	This can be tested by making level transitions to all the STMs
7.4.1.1.4.0-2	to display the list of "available" STMs to the driver before starting the mission (end of the Start of Mission procedure).	ETCS	True	True	False	SOM	1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.1.5	7.4.1.1.5 After starting a mission, every time a new STM is detected as available, the STM Control Function may inform the driver about the new available STM.		False	False	False	Unknown		
7.4.1.1.6	7.4.1.1.6 The STM Control Function shall send the product identity of the ETCS On-board (vendor id, specific supplier software and hardware version) to the STM once the connection from the STM to the STM Control Function is established.	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.4.1.1.7	7.4.1.1.7 The STM Control Function shall store a list with the target system names associated to the NID_STM values according to the UIC list, see /18/ SUBSET-054 Assignment of values to ETCS variables.	ETCS	True	False	False	Unknown		This is internal to the ETCS.

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.4.1.1.8	7.4.1.1.8 The STM control function shall use the target system name to identify the STM to the driver.	ETCS	True	True	False	SOM ETCS->STM STM->STM DA DE OT	1.1.0.0.1.0.1.1.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.1.0.2.0 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.1.9	7.4.1.1.9 When the target system name is not known by the STM Control Function, the STM Control Function shall use the NID_STM value as a fallback target system name.	ETCS	True	False	True	Unknown		
7.4.1.1.10	7.4.1.1.10 The STM control function is responsible, if possible (no failed connection), to manage the STM state transitions.		False	False	False	Unknown		
7.4.1.1.11	7.4.1.1.11 The STM Control Function shall send to the STM the following information when the connection to the STM is established:	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.4.1.1.11.0-1	The ETCS On-board functions that are available	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.4.1.1.11.0-2	The ETCS bus address of all available ETCS On-board functions	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.4.1.1.11.0-3	The safety level of all available ETCS On-board functions	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.4.1.1.12	7.4.1.1.12 The STM Control Function shall send to the STM the current ETCS technical mode	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OVR	3c.1.0.1.0.1.3.0.0, 3c.1.0.2.1.3.0.0, 3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0, 3c.1.0.4.1.3.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.4.3.2.0, 3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 3c.1.0.5.3.2.0, 4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 4c.0.0.0.0.1.0, 4c.0.0.0.0.2.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	The ETCS technical mode is sent to all connected STMs

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							1.1.0.0.1.0.1.1.0.1.0 1.2.0.1.1.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.1.0.2.0 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.1.12.0-1	when the connection between the STM and the STM Control Function is established, and	ETCS	True	True	False	SOM ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.4.1.1.12.0-2	whenever the ETCS technical mode changes.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OVR	3c.1.0.1.0.1.3.0.0, 3c.1.0.2.1.3.0.0, 3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.4.1.3.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.4.3.2.0, 3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 3c.1.0.5.3.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.1.0.1.1.0.2.0	
7.4.1.1.13	7.4.1.1.13 The STM Control Function shall transmit the ETCS data (see chapter 5.2.11)	ETCS	True	True	False	SOM ASU DA DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.2.0.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
7.4.1.1.13.0-1	while the STM is in state Configuration (CO),	ETCS	True	False	False	SOM ASU		Covered in 5.2.11

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.4.1.1.13.0-2	and whenever the ETCS data is changed/re-validated.	ETCS	True	True	False	SOM ASU DA DE	10B.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.3.0 .2.0.4.0, 10B.0.2.0.0.	
7.4.1.2	7.4.1.2 State transition orders		False	False	False	Unknown		
7.4.1.2.1	7.4.1.2.1 The STM Control Function STM state order table is a table that lists all the events that lead to a state order given by the STM Control Function to the STM.		False	False	False	Unknown		
7.4.1.2.2	7.4.1.2.2 STM state order table (ETCS On-board STM Control Function)	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA	10A.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.2, 10A.0.1.0.2.0.1.0.2.0.2.0.3.0 .2.0.4.1 2.0.0.0.4.0.2.0.2.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.1.0.0.1.1 2.0.0.0.5.0.2.0.2.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.2.0-1.0-1.0-1	NP		True	False	False	Unknown		
7.4.1.2.2.0-1.0-1.0-2	< A15		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-1.0-3	< A15		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-1.0-4	< A15		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-	< A15		False	False	False	Unknown		see 7.4.1.2.4.1

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-5								
7.4.1.2.2.0-1.0-1.0-6	< A15		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-1.0-7	< A15		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-1.0-8	< A15		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-2.0-1	A1 >		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-2.0-2	PO		True	False	False	Unknown		
7.4.1.2.2.0-1.0-2.0-3	< A1		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-2.0-4	< A1		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-2.0-5	< A1		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-2.0-6	< A1		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-2.0-7	< A1		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-2.0-8	< A1		False	False	False	Unknown		see 7.4.1.2.4.1
7.4.1.2.2.0-1.0-3.0-1	7.4.1.2.2.0-1.0-3.0-1		False	False	False	Unknown		
7.4.1.2.2.0-1.0-3.0-2	A2 >	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
7.4.1.2.2.0-1.0-3.0-3	CO		True	False	False	Unknown		
7.4.1.2.2.0-1.0-3.0-4	7.4.1.2.2.0-1.0-3.0-4		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-3.0-4								
7.4.1.2.2.0-1.0-3.0-5	7.4.1.2.2.0-1.0-3.0-5		False	False	False	Unknown		
7.4.1.2.2.0-1.0-3.0-6	7.4.1.2.2.0-1.0-3.0-6		False	False	False	Unknown		
7.4.1.2.2.0-1.0-3.0-7	7.4.1.2.2.0-1.0-3.0-7		False	False	False	Unknown		
7.4.1.2.2.0-1.0-3.0-8	7.4.1.2.2.0-1.0-3.0-8		False	False	False	Unknown		
7.4.1.2.2.0-1.0-4.0-1	7.4.1.2.2.0-1.0-4.0-1		False	False	False	Unknown		
7.4.1.2.2.0-1.0-4.0-2	7.4.1.2.2.0-1.0-4.0-2		False	False	False	Unknown		
7.4.1.2.2.0-1.0-4.0-3	A3 >	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0.1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0.1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0.2.0.4.1	
7.4.1.2.2.0-1.0-4.0-4	DE		True	False	False	Unknown		
7.4.1.2.2.0-1.0-4.0-5	7.4.1.2.2.0-1.0-4.0-5		False	False	False	Unknown		
7.4.1.2.2.0-1.0-4.0-6	7.4.1.2.2.0-1.0-4.0-6		False	False	False	Unknown		
7.4.1.2.2.0-1.0-4.0-7	7.4.1.2.2.0-1.0-4.0-7		False	False	False	Unknown		
7.4.1.2.2.0-1.0-4.0-8	7.4.1.2.2.0-1.0-4.0-8		False	False	False	Unknown		
7.4.1.2.2.0-1.0-5.0-1	7.4.1.2.2.0-1.0-5.0-1		False	False	False	Unknown		
7.4.1.2.2.0-1.0-5.0-2	7.4.1.2.2.0-1.0-5.0-2		False	False	False	Unknown		
7.4.1.2.2.0-1.0-5.0-3	A4a >	ETCS	True	True	False	SOM ASU	2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.2.0-1.0-5.0-4	A4a >	ETCS	True	True	False	SOM ASU DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1	
7.4.1.2.2.0-1.0-5.0-5	CS		True	False	False	Unknown		
7.4.1.2.2.0-1.0-5.0-6	< C4a	ETCS	True	True	False	ETCS->STM STM->STM	3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.3.2.1.2.0.0.0	
7.4.1.2.2.0-1.0-5.0-7	< B4a< A4b	ETCS	True	True	False	STM->ETCS STM->STM	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 4c.0.0.0.0.1.0, 4c.0.0.0.0.2.0, 5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2.0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2.1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.4.1.2.2.0-1.0-5.0-8	7.4.1.2.2.0-1.0-5.0-8		False	False	False	Unknown		
7.4.1.2.2.0-	7.4.1.2.2.0-1.0-6.0-1		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-6.0-1								
7.4.1.2.2.0-1.0-6.0-2	7.4.1.2.2.0-1.0-6.0-2		False	False	False	Unknown		
7.4.1.2.2.0-1.0-6.0-3	7.4.1.2.2.0-1.0-6.0-3		False	False	False	Unknown		
7.4.1.2.2.0-1.0-6.0-4	7.4.1.2.2.0-1.0-6.0-4		False	False	False	Unknown		
7.4.1.2.2.0-1.0-6.0-5	A6 >B6 >C6 >	ETCS	True	True	False	SOM ASU ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.1.3.1.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.2.3.2, 3a.0.0.3.2.1.2.0.0.0 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.2.0-1.0-6.0-6	HS		True	False	False	Unknown		
7.4.1.2.2.0-1.0-6.0-7	7.4.1.2.2.0-1.0-6.0-7		False	False	False	Unknown		
7.4.1.2.2.0-1.0-6.0-8	7.4.1.2.2.0-1.0-6.0-8		False	False	False	Unknown		
7.4.1.2.2.0-1.0-7.0-1	7.4.1.2.2.0-1.0-7.0-1		False	False	False	Unknown		
7.4.1.2.2.0-1.0-7.0-2	7.4.1.2.2.0-1.0-7.0-2		False	False	False	Unknown		
7.4.1.2.2.0-1.0-7.0-3	7.4.1.2.2.0-1.0-7.0-3		False	False	False	Unknown		
7.4.1.2.2.0-1.0-7.0-4	7.4.1.2.2.0-1.0-7.0-4		False	False	False	Unknown		
7.4.1.2.2.0-1.0-7.0-5	F9 >	ETCS	True	True	False	ETCS->STM STM->STM	3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 3c.1.0.5.3.2.0	the transition condition B9 is also relevant here as B9 includes the mode transition from TR to SN/SE
7.4.1.2.2.0-	A9 >B9 >C9 >D9 >E9 >	ETCS	True	True	False	SOM	3c.1.0.1.0.1.3.0.0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-7.0-6						ASU ETCS->STM STM->STM	3c.1.0.2.1.3.0.0, 3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0, 3c.1.0.4.1.3.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.4.3.2.0, 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0 5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2. 1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1. 1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2. 0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2. 1.1.0.0	
7.4.1.2.2.0-1.0-7.0-7	DA		True	False	False	Unknown		
7.4.1.2.2.0-1.0-7.0-8	7.4.1.2.2.0-1.0-7.0-8		False	False	False	Unknown		
7.4.1.2.2.0-1.0-8.0-1	G16 >	ETCS	True	False	True	SOM ASU		This is a degraded situation
7.4.1.2.2.0-1.0-8.0-2	A16 >B16 >C16 >H16 >I16 >A17 >	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA	9a.2.0.1.2 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2	
7.4.1.2.2.0-1.0-8.0-3	A16 >B16 >C16 > H16 >I16 >A17 >	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS	9b.2.0.1.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->STM DA DE OT OVR FA		
7.4.1.2.2.0-1.0-8.0-4	A16 >B16 >C16 > H16 >I16 >A17 >	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA	9c.2.0.1.2, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2	
7.4.1.2.2.0-1.0-8.0-5	A16 >B16 >C16 >D16 >H16 >A17 >	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA	3a.0.0.1.1.3.1.0, 3a.0.0.2.3.2, 3c.1.0.5.3.2.0, 9d.2.0.1.2 1.1.0.0.1.0.1.2.0	
7.4.1.2.2.0-1.0-8.0-6	A16 >B16 >C16 >D16 >H16 >A17 >	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.3.2.1.2.0.0.0, 3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.4.3.2.0, 9e.2.0.1.2 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						FA		
7.4.1.2.2.0-1.0-8.0-7	A16 >B16 >E16 >F16 >G16 >H16 >A17 >	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA	9f.2.0.2.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.4.1.2.2.0-1.0-8.0-8	FA		True	False	False	Unknown		
7.4.1.2.2.1	7.4.1.2.2.1 The STM Control Function shall consider the STM to be in NP when it has not received any state report from the STM.	ETCS	True	False	False	SOM		Internal to the ETCS
7.4.1.2.2.2	7.4.1.2.2.2 Examples:		False	False	False	Unknown		
7.4.1.2.2.2.0-1	The STM is in NP state.		False	False	False	Unknown		
7.4.1.2.2.2.0-2	The STM is powered on but not yet connected.		False	False	False	Unknown		
7.4.1.2.2.2.0-3	The STM is in FA state, but ETCS is not aware of this.		False	False	False	Unknown		
7.4.1.2.2.2.0-4	The STM is not installed but known by ETCS.		False	False	False	Unknown		
7.4.1.2.3	7.4.1.2.3 STM state order conditions table (ETCS On-board STM Control Function)	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1	This is not a requirement but kept due to the DOORS processing

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						FA	2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-1.0-1	Condition Id		True	False	False	Unknown		
7.4.1.2.3.0-1.0-1.0-2	Content of the conditions		True	False	False	Unknown		
7.4.1.2.3.0-1.0-2.0-1	A1		False	False	False	Unknown		See 7.4.1.2.4.1
7.4.1.2.3.0-1.0-2.0-2	(an STM connects to the STM Control Function) AND (the STM reports PO state)		False	False	False	Unknown		See 7.4.1.2.4.1
7.4.1.2.3.0-1.0-3.0-1	A2	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2	
7.4.1.2.3.0-1.0-3.0-2	("Request CO state" received from STM)	ETCS	True	True	False	SOM ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
7.4.1.2.3.0-1.0-4.0-1	A3	ETCS	True	True	False	SOM ASU	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2	
7.4.1.2.3.0-1.0-4.0-2	("Request DE state" received from STM) AND (ETCS data entry process terminated)	ETCS	True	True	False	SOM ASU	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2	
7.4.1.2.3.0-1.0-5.0-1	A4a	ETCS	True	True	False	SOM ASU	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-5.0-2	("Request CS state" received from STM)	ETCS	True	True	False	SOM ASU	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-6.0-1	B4a	ETCS	True	True	False	STM->ETCS	4a.0.0.0.0.0.1.0, 4a.0.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 4c.0.0.0.0.1.0, 4c.0.0.0.0.2.0	
7.4.1.2.3.0-1.0-6.0-2	(Level transition location for an STM to ETCS transition is passed)	ETCS	True	True	False	STM->ETCS	4a.0.0.0.0.0.1.0, 4a.0.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 4c.0.0.0.0.1.0, 4c.0.0.0.0.2.0	
7.4.1.2.3.0-1.0-7.0-1	C4a	ETCS	True	True	False	ETCS->STM STM->STM	3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.3.2.1.2.0.0.0, 5a.0.0.3.1.0.1.0.0.0	
7.4.1.2.3.0-1.0-7.0-2	(announcement for a transition to STM X was received) AND (STM X reports "HS state") AND (new announcement for a transition to another STM or ETCS Level is received before the level transition to STM X) see 7.4.1.2.3.3	ETCS	True	True	False	ETCS->STM STM->STM	3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.3.2.1.2.0.0.0	
7.4.1.2.3.0-1.0-8.0-1	A4b	ETCS	True	True	False	STM->STM	5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.4.1.2.3.0-1.0-8.0-2	(Level transition location for an STM X to STM Y transition is passed)	ETCS	True	True	False	STM->STM	5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2.0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2.1.1.0.0, 5c1.0.0.2.2.0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.4.1.2.3.0-1.0-9.0-1	5		False	False	False	Unknown		
7.4.1.2.3.0-1.0-9.0-2	<i>Intentionally left blank</i>		False	False	False	Unknown		
7.4.1.2.3.0-1.0-10.0-1	A6	ETCS	True	True	False	ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.1.3.1.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.2.3.2, 3a.0.0.3.2.1.2.0.0.0, 5a.0.0.3.1.0.1.0.0.0	
7.4.1.2.3.0-1.0-10.0-2	(ETCS On-board receives an announcement for a level transition to Level STM X) AND (STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3	ETCS	True	True	False	ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.1.3.1.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.2.3.2, 3a.0.0.3.2.1.2.0.0.0	
7.4.1.2.3.0-1.0-11.0-1	B6	ETCS	True	True	False	SOM ASU	1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-11.0-2	(ETCS technical mode is SB) AND (the driver has selected STM X) AND (valid level of the ETCS On-board is Level STM) AND (STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3	ETCS	True	True	False	SOM ASU	1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-12.0-1	C6	ETCS	True	True	False	SOM ASU	1.1.0.0.1.0.1.1.0.2.0	
7.4.1.2.3.0-1.0-12.0-2	(ETCS technical mode has changed from SB to NL or SL) AND (stored level of the ETCS On-board is Level STM X) AND (STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3	ETCS	True	True	False	SOM ASU	1.1.0.0.1.0.1.1.0.2.0	
7.4.1.2.3.0-1.0-13.0-1	7		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.4.1.2.3.0-1.0-13.0-2	<i>Intentionally left blank</i>		False	False	False	Unknown		
7.4.1.2.3.0-1.0-14.0-1	8		False	False	False	Unknown		
7.4.1.2.3.0-1.0-14.0-2	<i>Intentionally left blank</i>		False	False	False	Unknown		
7.4.1.2.3.0-1.0-15.0-1	A9	ETCS	True	True	False	ETCS->STM	3c.1.0.1.0.1.3.0.0, 3c.1.0.2.1.3.0.0, 3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0	
7.4.1.2.3.0-1.0-15.0-2	(Level transition location for a transition from ETCS to STM is passed) AND (ETCS technical mode is not TR)	ETCS	True	True	False	ETCS->STM	3c.1.0.1.0.1.3.0.0, 3c.1.0.2.1.3.0.0, 3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0	
7.4.1.2.3.0-1.0-16.0-1	B9	ETCS	True	True	False	ETCS->STM	3c.1.0.4.1.3.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.4.3.2.0	
7.4.1.2.3.0-1.0-16.0-2	(Level transition location for a transition from ETCS to STM is passed) AND (ETCS technical mode changes from TR to SN or SE)	ETCS	True	True	False	ETCS->STM	3c.1.0.4.1.3.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.4.3.2.0	
7.4.1.2.3.0-1.0-17.0-1	C9	ETCS	True	True	False	STM->STM	5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2.0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2.1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.4.1.2.3.0-1.0-17.0-2	(Level transition location for an STM X to STM Y transition is passed) AND (STM X reports "CS state")	ETCS	True	True	False	STM->STM	5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2.0, 0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2.1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.4.1.2.3.0-1.0-18.0-1	D9	ETCS	True	True	False	SOM ASU	1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-18.0-2	(ETCS technical mode changes from SB to SN or SE) AND (valid level of the ETCS On-board is Level STM) AND (STM X reports "HS state")	ETCS	True	True	False	SOM ASU	1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-19.0-1	E9	ETCS	True	True	False	SOM ASU	1.1.0.0.1.0.1.1.0.2.0	
7.4.1.2.3.0-1.0-19.0-2	(ETCS technical mode has changed from SB to NL or SL) AND (stored level of the ETCS On-board is Level STM X) AND (STM X reports "HS state")	ETCS	True	True	False	SOM ASU	1.1.0.0.1.0.1.1.0.2.0	
7.4.1.2.3.0-1.0-20.0-1	F9	ETCS	True	True	False	ETCS->STM STM->STM	3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 3c.1.0.5.3.2.0	
7.4.1.2.3.0-1.0-20.0-2	(transition ordered by the trackside) AND (no announcement for the level transition was received by the ETCS On-board)	ETCS	True	True	False	ETCS->STM STM->STM	3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 3c.1.0.5.3.2.0	
7.4.1.2.3.0-1.0-21.0-1	10		False	False	False	Unknown		
7.4.1.2.3.0-1.0-21.0-2	<i>Intentionally left blank</i>		False	False	False	Unknown		
7.4.1.2.3.0-1.0-22.0-1	11		False	False	False	Unknown		
7.4.1.2.3.0-1.0-22.0-2	<i>Intentionally left blank</i>		False	False	False	Unknown		
7.4.1.2.3.0-1.0-23.0-1	12		False	False	False	Unknown		
7.4.1.2.3.0-1.0-23.0-2	<i>Intentionally left blank</i>		False	False	False	Unknown		
7.4.1.2.3.0-1.0-23.0-3	13		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-24.0-1								
7.4.1.2.3.0-1.0-24.0-2	<i>Intentionally left blank</i>		False	False	False	Unknown		
7.4.1.2.3.0-1.0-25.0-1	14		False	False	False	Unknown		
7.4.1.2.3.0-1.0-25.0-2	<i>Intentionally left blank</i>		False	False	False	Unknown		
7.4.1.2.3.0-1.0-26.0-1	A15	ETCS	True	False	False	Unknown		
7.4.1.2.3.0-1.0-26.0-2	(the ERTMS/ETCS on-board equipment is NOT powered)	ETCS	True	False	False	Unknown		
7.4.1.2.3.0-1.0-27.0-1	A16	ETCS	True	False	True	Unknown		
7.4.1.2.3.0-1.0-27.0-2	(the STM control function receives from an STM a state request which is not allowed by the state transition table)	ETCS	True	False	True	Unknown		
7.4.1.2.3.0-1.0-28.0-1	B16	ETCS	True	True	True	Unknown		
7.4.1.2.3.0-1.0-28.0-2	(the STM reports a state it must not be in)	ETCS	True	True	True	Unknown		
7.4.1.2.3.0-1.0-29.0-1	C16	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM	3a.0.0.1.1.3.1.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.3.2, 3a.0.0.3.2.1.2.0.0.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.2.0, 4c.0.0.0.0.2.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2 1.1.0.0.1.0.1.2.0	
7.4.1.2.3.0-1.0-29.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM	3a.0.0.1.1.3.1.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.3.2, 3a.0.0.3.2.1.2.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							1.1.0.0.1.0.1.2.0	
7.4.1.2.3.0-1.0-30.0-1	D16	ETCS	True	True	False	ETCS->STM STM->STM	3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.4.3.2.0, 3c.1.0.5.3.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-30.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2	ETCS	True	True	False	ETCS->STM STM->STM	3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.4.3.2.0, 3c.1.0.5.3.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.2.3.0-1.0-31.0-1	E16	ETCS	True	True	False	STM->STM	5c1.0.0.2.2.0	
7.4.1.2.3.0-1.0-31.0-2	(the STM Control Function has sent a "conditional CS state transition order") AND (the STM does not report CS state or send a "Trip" message within a maximum delay time of 10 seconds) see 7.4.1.2.3.2	ETCS	True	True	False	STM->STM	5c1.0.0.2.2.0	
7.4.1.2.3.0-1.0-32.0-1	F16	ETCS	True	True	False	STM->STM	5c1.0.0.1.3.2.2.0	
7.4.1.2.3.0-1.0-32.0-2	(the STM Control Function has already received a "Trip" message from an STM) AND (the STM does not report CS state or send a "Trip" message within a maximum delay time of 10 seconds) see 7.4.1.2.3.2	ETCS	True	True	False	STM->STM	5c1.0.0.1.3.2.2.0	
7.4.1.2.3.0-1.0-33.0-1	G16	ETCS	True	False	True	Unknown		
7.4.1.2.3.0-1.0-33.0-2	(the ETCS On-board does not support the requested DMI object) AND (the default definition of the requested DMI object is not sent by the STM)	ETCS	True	False	True	Unknown		
7.4.1.2.3.0-1.0-34.0-1	H16	ETCS	True	True	True	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						FA		
7.4.1.2.3.0-1.0-34.0-2	(a final disconnection between the ETCS On-board STM Control Function and the STM was detected (see /11/ SUBSET-057 STM FFFIS Safe Link Layer and /10/ SUBSET-056 STM FFFIS Safe Time Layer))	ETCS	True	True	True	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA		
7.4.1.2.3.0-1.0-35.0-1	I16	ETCS	True	True	True	ETCS->STM STM->STM FA		
7.4.1.2.3.0-1.0-35.0-2	(the ETCS On-board equipment has to switch to the Level STM which is the announced level with the lowest priority) AND (this STM is not available) see 7.4.1.2.3.3	ETCS	True	True	True	ETCS->STM STM->STM FA		
7.4.1.2.3.0-1.0-36.0-1	A17	ETCS	True	True	False	FA	9a.2.0.1.2, 9b.2.0.1.1.0, 9c.2.0.1.2, 9d.2.0.1.2, 9e.2.0.1.2, 9f.2.0.2.0	
7.4.1.2.3.0-1.0-36.0-2	(the STM reports FA state)	ETCS	True	True	False	FA	9a.2.0.1.2, 9b.2.0.1.1.0, 9c.2.0.1.2, 9d.2.0.1.2, 9e.2.0.1.2, 9f.2.0.2.0	
7.4.1.2.3.1	7.4.1.2.3.1 Note: The delay is shorter for transition to DA state because this transition is assumed as the most critical one from a safety aspect.		False	False	False	Unknown		
7.4.1.2.3.2	7.4.1.2.3.2 Note: The delay values (5 and 10 seconds) are based on assumptions. The fact that these values are appropriate to real STM implementation has to be confirmed by test tracks or other tests.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.4.1.2.3.3	7.4.1.2.3.3 Note: The ETCS On-board equipment shall nevertheless make the transition, to the announced level with the lowest priority		False	False	False	Unknown		
7.4.1.2.3.3.0-1	is not fitted for any of the announced levels, or		False	False	False	Unknown		
7.4.1.2.3.3.0-2	if no announced STM is available		False	False	False	Unknown		
7.4.1.2.3.3.0-3	(see /6/ SRS Version 2.2.2; SUBSET-026.5; Procedures).		False	False	False	Unknown		
7.4.1.2.3.4	7.4.1.2.3.4 When the STM Control Function has to order an STM to HS state but another STM is currently reporting HS state, the STM Control Function shall send the "HS state transition order" (C4a) only after the STM which currently reports HS state has been ordered to CS state and reports CS state.	ETCS	True	True	False	ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.1.3.1.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.2.3.2, 3a.0.0.3.2.1.2.0.0.0, 5a.0.0.3.1.0.1.0.0.0	
7.4.1.2.4	7.4.1.2.4 When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.	ETCS	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.1.3.1.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.2.3.2, 3a.0.0.3.2.1.2.0.0.0, 3c.1.0.1.0.1.3.0.0, 3c.1.0.2.1.3.0.0, 3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.3.1.1, 3c.1.0.3.1.2.0, 3c.1.0.4.1.3.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.4.3.2.0, 3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 3c.1.0.5.3.2.0, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 5a.0.0.3.1.0.1.0.0.0	This is covered by the requirements 7.4.1.2.2 and 7.4.1.2.3
7.4.1.2.4.1	7.4.1.2.4.1 Exception 1: The STM Control	ETCS	True	False	True	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Function shall not send an order for NP or PO state.							
7.4.1.2.4.2	7.4.1.2.4.2 When the state transition order is going to CS state, the STM Control Function shall send an "unconditional order CS state" for the transition A4a, B4a and C4a and a "conditional order CS state" for the transition A4b.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM	3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.3.2.1.2.0.0.0, 4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 4c.0.0.0.0.1.0, 4c.0.0.0.0.2.0, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.3.0 .2.0.4.1, 1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.1.0.2.0 1.1.0.0.1.0.1.1.0.2.0 1.1.0.0.2.0.1.0.2.0 1.1.0.0.2.0.1.0.1.2.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.4.1.2.5	7.4.1.2.5 If the ETCS Train Data Entry procedure is triggered during the normal operation (the state of the STM is CS or HS or DA) the relevant exchange of data (see chapter 13.1.1) shall take place without changing the STM State.	ETCS	True	True	False	DA DE OT	10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.2.0.0, 10B.0.1.0.2.0.1.0.2.0.2.0.3.0 .2.0.4.0	This is covered by the requirements 7.4.1.2.2 and 7.4.1.2.3
7.4.1.3	7.4.1.3 Requirements linked to state transition orders and state reports		False	False	False	Unknown		
7.4.1.3.1	7.4.1.3.1 The STM Control Function shall consider a state transition order as effective immediately after sending the state transition order to the STM.	ETCS	True	False	False	Unknown		ETCS internal
7.4.1.3.2	7.4.1.3.2 The STM Control Function shall not	ETCS	True	True	True	SOM		Idea for the test: Two

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	send a state transition order to an STM, as long as this STM has not reported the state corresponding to the previous state transition order.					ASU ETCS->STM STM->ETCS STM->STM		consecutive level transition announcements to different STMs Levels will force the ETCS to wait until the first one has change the state (to HS) before sending the order to go to CS State
7.4.1.3.3	7.4.1.3.3 Exception: The STM Control Function shall be allowed to send an "FA state transition order" at any time.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR FA		Cover in 1a.1.0.0.1.0.2
7.4.1.3.4	7.4.1.3.4 After sending a "conditional order CS" the access to ETCS On-board functions shall remain until the STM report CS is received by the ETCS On-board.	ETCS	True	True	False	STM->STM	5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.1.2.0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2.1.1.0.0, 5C1.0.0.1.3.1.0.0	
7.4.1.3.5	7.4.1.3.5 When a STM has failed or is commanded to FA state, the STM control function shall report to the JRU the failed status of the STM.	ETCS	True	True	False	JRU FA	9a.2.0.1.2, 9b.2.0.1.1.0, 9c.2.0.1.2, 9d.2.0.1.2, 9e.2.0.1.2, 9f.2.0.2.0	
7.4.1.3.6	7.4.1.3.6 When a STM has failed, the STM control function shall report to the driver the failed status of the STM.	ETCS	True	True	False	FA	3a.0.0.1.1.3.1.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3c.1.0.2.2.2.0, 3c.1.0.4.3.2.0, 3c.1.0.5.3.2.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.2.0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							4c.0.0.0.0.2.0, 9a.2.0.1.2, 9b.2.0.1.1.0, 9c.2.0.1.2, 9d.2.0.1.2, 9e.2.0.1.2, 9f.2.0.2.0	
7.4.1.4	7.4.1.4 The STM Control Function shall take the safe action (see /5/ SRS Version 2.2.2; SUBSET-026.4; Modes and Transitions) when	ETCS	True	True	False	DA	3c.1.0.2.2.2.0, 3c.1.0.4.3.2.0, 3c.1.0.5.3.2.0, 6.1.1.1.0.0, 6.1.2.3.0.0.0, 6.2.0.0.0.0.0	
7.4.1.4.0-1	an active STM reports PO state,	ETCS	True	True	False	DA		An Active STM first has to go to a NP state before reporting a PO state. To be clarified. Similar to 7.4.1.2.3 B16 (the STM reports a state it must not be in) STM in DA send back state PO to the ETCS by use of simulator. No test on the STM part. Test 6.2 To review FB
7.4.1.4.0-2	an active STM reports FA state,	ETCS	True	True	False	DA	6.2.0.0.0.0.0	
7.4.1.4.0-3	an active STM is considered by the ETCS in FA state,	ETCS	True	True	False	DA	6.1.2.3.0.0.0	
7.4.1.4.0-4	connection between an active STM and the STM Control Function is lost.	ETCS	True	True	False	DA	6.1.1.1.0.0	
7.4.1.5	7.4.1.5 The safe action shall be released by the STM Control Function when	ETCS	True	True	False	SOM ASU ETCS->STM STM->STM DA	6.1.1.1.0.0, 6.1.2.3.0.0.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.1.5.0-1	the active STM reconnects to the STM Control Function after a non-final disconnection and the reported STM state is still DA,	ETCS	True	True	False	DA	6.1.1.1.0.0	
7.4.1.5.0-2	another STM or ETCS level is selected.	ETCS	True	True	False	SOM STM->ETCS	1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->STM		
7.4.1.6	7.4.1.6 Miscellaneous		False	False	False	Unknown		
7.4.1.6.1	7.4.1.6.1 Once the STM Control Function is aware of a failed STM, the ETCS On-board shall behave as if the On-board was not fitted at all with this STM.	ETCS	True	True	True	FA	3a.0.0.1.1.3.1.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.3.2, 3a.0.0.3.2.1.2.0.0.0, 3c.1.0.2.2.1, 3c.1.0.2.2.2.0, 3c.1.0.4.3.2.0, 3c.1.0.5.3.2.0	
7.4.1.6.2	7.4.1.6.2 When a failed STM reports PO state to the STM Control Function, the STM Control Function shall no longer behave as if the On-board was not fitted at all with this STM.	ETCS	True	True	False	FA	9b.2.0.1.1.0	
7.4.1.6.2.1	7.4.1.6.2.1 Justification: This allows for a restart of the STM.		False	False	False	Unknown		
7.4.2	7.4.2 Other ETCS requirements		False	False	False	Unknown		
7.4.2.1	7.4.2.1 At the Start of Mission procedure		False	False	False	Unknown		
7.4.2.1.1	7.4.2.1.1 At the Start of Mission procedure, the ETCS On-board shall propose the STM mode to be acknowledged by the driver only when the selected STM has reported HS State to the ETCS On-board.	ETCS	True	True	False	SOM	1.1.0.0.2.0.1.0.1.1.0.0.0.1.0 1.1.0.0.2.0.1.0.1.1.0.0.0.2.0	
7.4.2.2	7.4.2.2 After announcement, but before the level transition		False	False	False	Unknown		
7.4.2.2.1	7.4.2.2.1 If receiving an "STM max speed" from an STM in HS state, the ETCS On-board shall include the "STM max speed" into the computation of the MRSP beginning at the level transition border and ending when the report "DA state" has been received by the ETCS On-board from the STM to be activated.	ETCS	True	True	False	ETCS->STM	3b.1.2.3.2.3.1	
7.4.2.2.1.1	7.4.2.2.1.1 Exception: After receiving an announcement for an STM to STM transition, the ETCS On-board shall not consider the "STM	ETCS	True	True	False	STM->STM	5b.1.2.1.2.1.1, 5b.1.2.2.1.1, 5b.1.2.2.1.1, 5b.1.2.2.1.3.0, 5b.1.2.2.3.0, 5b.1.2.3.0,	

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	max speed".						5b.1.2.4.0	
7.4.2.2.2	7.4.2.2.2 If the STM reports FA state, or is identified by the ETCS On-board as failed, then the ETCS On-board shall consider that STM max speed = 0.	ETCS	True	True	False	ETCS->STM STM->STM FA	3a.0.0.1.1.3.1.0, 3b.2.0 5b.1.1.4.0, 5b.1.2.2.1.3.0, 5b.1.2.4.0	Cover in 5A.0.0.1.1.3.1.0
7.4.2.2.2.1	7.4.2.2.2.1 Note: The purpose of the above requirement is to try to prevent the train to enter in an STM area while this STM is failed.		False	False	False	Unknown		
7.4.2.2.3	7.4.2.2.3 If the ETCS On-board does not receive an "STM max speed" value from the STM in HS state, the ETCS On-board shall not supervise any "STM max speed" at all and the computation of the MRSP is not affected.	ETCS	True	True	False	ETCS->STM STM->STM	3b.1.2.3.2.3.1	
7.4.2.2.3.1	7.4.2.2.3.1 Note: It is not mandatory for the STM to send a "STM max speed" value.		False	False	False	Unknown		
7.4.2.2.4	7.4.2.2.4 When receiving an "STM system speed" together with an "STM system distance" from an STM in HS state, the ETCS On-board shall consider the "STM system speed" as a new speed restriction that applies at a location "STM system distance" before the level transition border and ending at the level transition border: The ETCS On-board shall include the "STM system speed" into the computation of the MRSP.	ETCS	True	True	False	ETCS->STM	3b.1.2.3.2.3.1	
7.4.2.2.4.1	7.4.2.2.4.1 Exception: After receiving an announcement for an STM to STM transition, the ETCS On-board shall not consider the "STM system speed" and "STM system distance".	ETCS	True	True	False	STM->STM	5b.1.1.4.0, 5b.1.2.1.2.1.1	
7.4.2.2.5	7.4.2.2.5 If the ETCS On-board does not receive the "STM system speed" together with the "STM system distance" values from the STM in HS state, the ETCS On-board shall not take into account "STM system speed" and "STM system distance" at all and the computation of the MRSP is not affected.	ETCS	True	True	False	ETCS->STM STM->STM	3b.1.2.3.2.3.1	
7.4.2.3	7.4.2.3 After the level transition		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.4.2.3.1	7.4.2.3.1 Once the train has passed the level transition border, the ETCS On-board shall supervise the "STM max speed" (previously sent by the STM in HS state).	ETCS	True	True	False	ETCS->STM STM->STM	3c.1.0.1.0.1.3.0.0, 3c.1.0.2.1.3.0.0, 3c.1.0.4.1.3.0.0, 5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.2.1.1.0.0, 5c1.0.0.2.2.0, 5C1.0.0.1.3.1.0.0, 5c1.0.0.1.3.2.2.0	
7.4.2.3.2	7.4.2.3.2 Once the STM report "DA state" is received by the ETCS On-board, the ETCS On-board shall stop supervising "STM max speed".	ETCS	True	True	False	ETCS->STM STM->STM	3c.1.0.1.0.1.3.0.0, 3c.1.0.2.1.3.0.0, 3c.1.0.4.1.3.0.0, 5c.1.0.1.2.(5c1.0.0.3.0.0).0.2.2.1.0, 5c.1.0.2.(5c1.0.0.3.0.0).0.2.2.2, 5c.1.0.1.1.0.(5c1.0.0.3.0.0).0.1.1.2.1.0	
7.4.2.4	7.4.2.4 ETCS TIU and BIU Function		False	False	False	Unknown		
7.4.2.4.1	7.4.2.4.1 The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.3.2.1.2.0.0.0, 6.5.0.0.0.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.2,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							5a.0.0.3.1.0.1.0.0.0	
7.4.2.4.1.0-1	When a connection is established	ETCS	True	True	False	SOM ASU ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.3.2.1.2.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
7.4.2.4.1.0-2	Whenever a TIU status / availability changes.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.5.0.0.0.0.0.0.0	
7.4.2.4.2	7.4.2.4.2 The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.3.2.1.2.0.0.0, 6.7.0.0.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							5a.0.0.3.1.0.1.0.0.0	
7.4.2.4.2.0-1	When a connection is established	ETCS	True	True	False	SOM ASU ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3a.0.0.2.2.0.0.0, 3a.0.0.3.2.1.2.0.0.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
7.4.2.4.2.0-2	Whenever a Brake status changes.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.7.0.0.0.0.0	
7.5	7.5 Engineering Requirements for the Level Transition		False	False	False	Unknown		
7.5.1	7.5.1		False	False	False	Unknown		
7.5.1.1	7.5.1.1 For the train to be able to enter the new area, the previous STM area must possess information about at least the first section of the new area. The national trackside information may be transmitted to the train such that entry to the new area is possible only when the route status permits this.		False	False	False	Unknown		Requirement for ETCS trackside
7.5.1.1.1	7.5.1.1.1 Note: This is in addition to		False	False	False	Unknown		Requirement for ETCS

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	requirements in chapter 5.10.3 of /1/ SUBSET-026; SRS Version 2.2.2 for the Level Transitions from a Level 1, 2 or 3 area into any other area.							trackside
7.5.1.2	7.5.1.2 The ETCS trackside shall transmit a speed profile, which limits the speed from the point where the national trackside equipment starts up to the transition border. The speed limit shall be engineered to respect the maximum system speed of the announced level with the highest priority.		False	False	False	Unknown		Requirement for ETCS trackside
7.5.1.2.1	7.5.1.2.1 Note: This is to allow the STM to detect and read its national trackside.		False	False	False	Unknown		Requirement for ETCS trackside
7.5.1.2.2	7.5.1.2.2 Definition: The maximum system speed shall be defined as the highest speed at which a (national) train control system is able to detect and read its (national) trackside.		False	False	False	Unknown		Requirement for ETCS trackside
7.5.1.2.3	7.5.1.2.3 For a transition from STM area to any other area, the STM may need to be aware of the maximum allowed speed of the new area in order to provide a smooth transition		False	False	False	Unknown		Requirement for ETCS trackside
7.5.1.3	7.5.1.3 It has to be prevented that one driver override order for one signal can be interpreted as valid for the next signal.		False	False	False	Unknown		Requirement for ETCS trackside
7.6	7.6 General requirements linked to the opening of connection between STM and ETCS On-board		False	False	False	Unknown		
7.6.1	7.6.1 Opening of the connection		False	False	False	Unknown		
7.6.1.1	7.6.1.1 A connection shall be considered as established when the version check is considered as terminated and successful (see chapter 7.6.2).	ETCS STM National STM European	True	False	False	Unknown		This is a definition and ETCS internal
7.6.1.2	7.6.1.2 When a STM has to establish a connection with an ETCS On-board function,	STM National	True	True	False	SOM ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	and fails to establish the connection, the STM shall not retry more than 2 times to establish the connection.	STM European				ETCS->STM STM->STM		
7.6.1.2.1	7.6.1.2.1 Note: The limitation of 2 retries is to forbid an STM with incompatible version to overload the bus.		False	False	False	Unknown		
7.6.1.3	7.6.1.3 When the STM fails to establish a connection to the STM Control Function, the STM shall switch to FA state.	STM National STM European	True	False	False	SOM ASU FA		STM internal
7.6.1.4	7.6.1.4 When the STM fails to establish a connection to other ETCS Functions than the STM Control Function, the STM shall decide if it can work without the respective connection or not. If it cannot work without the respective connection, the STM shall switch to FA state.	STM National STM European	True	False	False	Unknown		STM internal
7.6.1.4.1	7.6.1.4.1 Exception: If the STM fails to establish a connection with the (main) DMI, the STM may try to establish a connection with the redundant DMI if it is available.	STM National STM European	True	False	False	Unknown		STM internal
7.6.1.4.2	7.6.1.4.2 Note: Due to specific train installation, the DMI(s) in a non-active cab may not be available.		False	False	False	Unknown		
7.6.1.5	7.6.1.5 When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.	STM National STM European	True	False	False	SOM ETCS->STM STM->STM	3a.0.0.1.1.1.0.0.0, 3a.0.0.2.2.0.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.5.1.0.1.0, 3c.1.0.5.2.0.2, 5a.0.0.3.1.0.1.0.0.0	STM Internal. IT is up to the STM to handle this.
7.6.1.5.1	7.6.1.5.1 Exception: If the ETCS technical mode is SL, the STM shall not open a connection to the ETCS DMI function.	STM National STM European	True	False	False	SOM ETCS->STM STM->STM	3a.0.0.2.2.0.0.0, 3c.1.0.5.2.0.2	STM Internal. IT is up to the STM to handle this.
7.6.2	7.6.2 Check of version		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7.6.2.1	7.6.2.1 Definition: The "STM version number" includes the versions of the following specifications and / or documents, which are implemented in the STM which is sending this information:		False	False	False	Unknown		
7.6.2.1.0-1	Subset 026 system version		False	False	False	Unknown		
7.6.2.1.0-2	Subset 035 compatibility version		False	False	False	Unknown		
7.6.2.1.0-3	Subset-056 compatibility version		False	False	False	Unknown		
7.6.2.1.0-4	Subset-057 compatibility version		False	False	False	Unknown		
7.6.2.1.0-5	Subset 058 compatibility version		False	False	False	Unknown		
7.6.2.2	7.6.2.2 Definition: The "ETCS On-board version number" includes the versions of the following specifications and / or documents, which are implemented in the ETCS On-board which is sending this information:		False	False	False	Unknown		
7.6.2.2.0-1	Subset 026 system version		False	False	False	Unknown		
7.6.2.2.0-2	Subset 035 compatibility version		False	False	False	Unknown		
7.6.2.2.0-3	Subset-056 compatibility version		False	False	False	Unknown		
7.6.2.2.0-4	Subset-057 compatibility version		False	False	False	Unknown		
7.6.2.2.0-5	Subset 058 compatibility version		False	False	False	Unknown		
7.6.2.3	7.6.2.3 Each time STM opens a connection with any ETCS On-board functions, STM shall send its "STM version number" to this ETCS On-board function.	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->STM	2.0.0.0.2.0.2.0.1.0 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0	
7.6.2.4	7.6.2.4 When receiving "STM version number" from a STM, the concerned ETCS On-board function shall send its "ETCS function version number" to the STM and check the version compatibility.	ETCS	True	True	False	SOM ASU ETCS->STM STM->STM	2.0.0.0.8.0.1.0 2.0.0.0.2.0.2.0.1.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
7.6.2.5	7.6.2.5 If the ETCS On-board function detects incompatible version, the ETCS On-board function shall close the connection.	ETCS	True	True	False	SOM ASU ETCS->STM STM->STM	2.0.0.0.8.0.1.0	
7.6.2.6	7.6.2.6 If the "STM version number" is compatible with the "ETCS function version number", the ETCS On-board function shall be allowed to transmit application data to the STM.	ETCS	True	True	False	SOM ASU ETCS->STM STM->STM	2.0.0.0.2.0.2.0.1.0 2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	
7.6.2.7	7.6.2.7 When receiving "ETCS function version number" from ETCS On-board, the STM shall check the version compatibility.	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->STM	2.0.0.0.2.0.2.0.1.0 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.6.2.8	7.6.2.8 If "ETCS function version number" is compatible with the "STM version number", then the version check is considered as terminated and successful.		False	False	False	Unknown		
7.6.2.9	7.6.2.9 After the version check is considered as terminated and successful by the STM, the STM shall be allowed to transmit application data to the ETCS On-board function.	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->STM	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
7.6.2.10	7.6.2.10 If "ETCS function version number" is not compatible with the "STM version number", then the STM shall close the connection to the concerned ETCS On-board function.	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->STM	2.0.0.0.2.0.2.0.1.0	
7.6.3	7.6.3 Closing of the connection		False	False	False	Unknown		
7.6.3.1	7.6.3.1 Closing a connection on application layer shall be done by requesting the Safety Layers (see 14.6.1.2) to close the connection.	STM National STM European	True	False	False	Unknown		ETCS and STM internal
7.6.3.2	7.6.3.2 When an STM in DA state or HS state receives an order to go in CS state, the STM	ETCS STM National STM European	True	True	False	ETCS->STM STM->ETCS STM->STM	3a.0.0.1.2.1.0.1.0.0.0, 4a.0.0.0.0.0.1.0, 4b.0.0.0.0.1.0, 4c.0.0.0.0.1.0, 5a.0.0.3.1.0.1.0.0.0	DA to CS should be checked by STM->ETCS HS to CS should be checked by ETCS->STM
7.6.3.2.0-1	shall have the possibility to close the connection with the JRU (up to the STM to decide it or not).	ETCS	True	True	False	ETCS->STM STM->ETCS STM->STM	4a.0.0.0.0.0.1.0, 4b.0.0.0.0.1.0, 4c.0.0.0.0.1.0	STM internal ETCS should support the number of maintained connections.
7.6.3.2.0-2	shall have the possibility to close the	ETCS	True	True	False	ETCS->STM	4a.0.0.0.0.0.1.0,	STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	connection with the DRU (up to the STM to decide it or not).					STM->ETCS STM->STM	4b.0.0.0.0.1.0, 4c.0.0.0.0.1.0	ETCS should support the number of maintained connections.
7.6.3.2.0-3	shall have the possibility to close the connection with the TIU (up to the STM to decide it or not).	ETCS	True	True	False	ETCS->STM STM->ETCS STM->STM	4a.0.0.0.0.1.0, 4b.0.0.0.0.1.0, 4c.0.0.0.0.1.0	STM internal ETCS should support the number of maintained connections.
7.6.3.2.0-4	shall have the possibility to close the connection with the BIU (up to the STM to decide it or not).	ETCS	True	True	False	ETCS->STM STM->ETCS STM->STM	4a.0.0.0.0.1.0, 4b.0.0.0.0.1.0, 4c.0.0.0.0.1.0	STM internal ETCS should support the number of maintained connections.
7.6.3.2.0-5	shall maintain the connection with the STM Control Function.	STM National STM European	True	True	False	ETCS->STM STM->ETCS STM->STM	3a.0.0.1.2.1.0.1.0.0.0	ETCS should support the number of maintained connections.
7.6.3.2.0-6	shall close the connections with all other ETCS On-board functions	STM National STM European	True	True	False	ETCS->STM STM->ETCS STM->STM	3a.0.0.1.2.1.0.1.0.0.0	ETCS should support the number of maintained connections.
7.6.4	7.6.4 Connection Sequence Charts.		False	False	False	Unknown		
7.6.4.1	7.6.4.1 Nominal Connection establishment Sequence Chart		False	False	False	Unknown		
7.6.4.1.0-1			False	False	False	Unknown		
7.6.4.1.0-1.0-1			False	False	False	Unknown		Figures are not requirements.
7.6.4.2	7.6.4.2 Bad Version Number detected by application Sequence Chart		False	False	False	Unknown		
7.6.4.2.0-1			False	False	False	Unknown		
7.6.4.2.0-1.0-1			False	False	False	Unknown		Figures are not requirements.
8	8 Odometry		False	False	False	Unknown		

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8.1	8.1 General		False	False	False	Unknown		
8.1.1	8.1.1		False	False	False	Unknown		
8.1.1.1	8.1.1.1 The STM FFFIS specifies odometer information to be transmitted from ETCS On-board to all STMs via FFFIS STM. The odometer information of the FFFIS STM is based on measurements from sensors that are part of the ETCS On-board.		False	False	False	Unknown		Definition
8.1.1.2	8.1.1.2 The implementation issues of the ETCS On-board odometer shall be hidden from the STM, while retaining as large freedom as possible for the implementation and design of the ETCS On-board odometer.		False	False	False	Unknown		
8.1.1.3	8.1.1.3 The ETCS On-board shall transmit odometer information via the FFFIS STM interface at regular intervals. This information shall include travelled distance, direction, current speed and confidence interval of measurement of distance. This information shall be time stamped with the time when the position and speed was valid.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.1.1.4	8.1.1.4 Every transmitted odometer information report shall be time stamped. The time base for timestamp shall be the Reference Time obtained from the Safe Time Layer, see 5.2.2.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.1.1.5	8.1.1.5 The odometer information shall be sufficient for the STMs to be able to individually		True	False	False	Unknown		Document requirement covered by another

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	calculate the distance and confidence interval between any two points passed during travelling independently from the STM state (Data Available, Hot Standby, Cold Standby etc.).							
8.1.1.6	8.1.1.6 The confidence interval data shall be transmitted as a mandatory (deterministic) and an optional stochastic part.		True	False	False	Unknown		Document requirement covered by another
8.1.1.7	8.1.1.7 The STM shall be able to calculate the confidence interval by using the transmitted mandatory (deterministic) part only.		True	False	False	Unknown		Document requirement
8.1.1.8	8.1.1.8 The communication shall be unidirectional from ETCS On-board odometer to all STMs using multicast messages.		True	False	False	Unknown		Document requirement
8.1.1.9	8.1.1.9 The ETCS On-board odometer function shall not accept any data from STMs.		True	False	False	Unknown		ETCS internal
8.1.1.10	8.1.1.10 Note: Standstill indication is not provided as an individual parameter. It is a redundant information that can be derived from speed and distance information. The problem is that the criteria on standstill seems to differ substantially between applications. Standstill indication is therefore a responsibility allocated to the STM.		False	False	False	Unknown		
8.1.1.11	8.1.1.11 Speed and distance information shall be given for both travel directions.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.1.1.12	8.1.1.12 Positive movement direction is defined as a movements going in the direction of cab B to cab A. It shall be indicated with positive speed and increasing odometer distance	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS	6.8.1.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	values.					STM->STM DA DE OT OVR		
8.1.1.13	8.1.1.13 Negative movement direction is defined as movements going in the direction of cab A to cab B. It shall be indicated with negative speed and decreasing odometer distance values.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.3.2	
8.1.1.13.1	8.1.1.13.1 Note: Allocation of cab A and cab B on a specific train is a pure ETCS On-board implementation issue.		False	False	False	Unknown		
8.1.1.14	8.1.1.14 Two's complement shall be used to express values of speed and distance.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.1.1.15	8.1.1.15 The ETCS On-board odometer function shall be allowed to reset distance values during ETCS start-up after Power Off. The ETCS On-board odometer shall also be allowed not to reset the odometer distance values during Power Off.	STM National STM European	True	False	False	SOM ASU		Is STM internal
8.1.1.16	8.1.1.16 The ETCS On-board shall not reset the odometer distance values as long as the ETCS On-board is powered-on.		True	False	False	Unknown		ETCS internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
8.1.1.16.1	8.1.1.16.1 Justification: The ETCS odometer information is used as a common reference within the FFFIS STM.		False	False	False	Unknown		
8.1.1.17	8.1.1.17 An STM shall not require ETCS odometer to reset distance values at STM power on.		True	False	False	Unknown		Definition
8.1.1.17.1	8.1.1.17.1 Justification: an STM that is restarted while ETCS On-board is running will find the odometer parameters at current values.		False	False	False	Unknown		
8.1.1.18	8.1.1.18 It is assumed that the Hazardous Failure Rate of the ETCS Odometer, being sufficiently low for ETCS operation, is also sufficient for any national system.		False	False	False	Unknown		This is an assumption, not a requirement.
8.1.1.19	8.1.1.19 The ETCS On-board shall transmit odometer configuration data to the STMs.	ETCS	True	True	False	SOM ASU	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.1.1.20	8.1.1.20 The STM shall check the ETCS On-board odometer configuration data and act according to the national rules if the ETCS On-board odometer performance does not fit the national requirements.	STM National STM European	True	False	False	Unknown		STM internal
8.1.1.21	8.1.1.21 The ETCS On-board odometer function shall report to the STMs its configuration status. This configuration status indicates whether the configuration is nominal (all odometer sensors available) or not.	ETCS	True	True	False	Unknown	6.8.1.1.0, 6.8.2.2, 6.8.3.2	ETCS internal The test shall verify that the information is reported. (Status may not change.)
8.2	8.2 Speed		False	False	False	Unknown		
8.2.1	8.2.1		False	False	False	Unknown		
8.2.1.1	8.2.1.1 Nominal speed, V_Nom, shall be the speed (train speed according to /4/ SRS Version 2.2.2; SUBSET-026.3; Principles) as used by the ETCS On-board.	ETCS	True	False	False	Unknown		ETCS internal Definition
8.2.1.2	8.2.1.2 The ETCS Odometer function shall transmit the nominal speed to the STMs.	ETCS	True	True	False	SOM ASU ETCS->STM	6.8.1.1.0, 6.8.2.2, 6.8.3.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->ETCS STM->STM DA DE OT OVR		
8.2.1.3	8.2.1.3 In case of SE mode, the nominal speed shall be used for speed monitoring by the ETCS supervision function.	ETCS	True	False	False	Unknown		Definition
8.2.1.3.1	8.2.1.3.1 Note: This is the same speed that would have been used by ETCS in case of operation in Levels 1, 2 or 3.		False	False	False	Unknown		
8.2.1.4	8.2.1.4 At standstill the nominal speed shall be zero. However vehicle vibration and jerk is allowed to give sporadic non-zero speed estimations.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.2.2	
8.2.1.5	8.2.1.5 The nominal speed shall comply with the performance requirements laid out in /17/ SUBSET-041 Performance Requirements for Interoperability, and applicable requirements in /12/ SUBSET-059 STM Performance.	ETCS	True	False	False	Unknown		ETCS internal
8.2.1.6	8.2.1.6 Maximum speed, V_Max, is defined as the highest possible physical speed including all measurement inaccuracies in case of movement in positive direction. For movements in negative direction V_Max reports the lowest possible speed in absolute value.		False	False	False	Unknown		Definition
8.2.1.7	8.2.1.7 Minimum speed, V_Min, is defined as the lowest possible physical speed including all measurement inaccuracies in case of movement in positive direction. For movements		False	False	False	Unknown		Definition

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	in negative direction V_Min reports the highest possible speed in absolute value.							
8.2.1.8	8.2.1.8 Clarification: For any speed and direction the expression V_Min = V_Max shall be true. For negative movements V_Min has a larger absolute value, but a negative sign.		False	False	False	Unknown		
8.2.1.9	8.2.1.9 The ETCS Odometer function shall transmit the maximum and the minimum speed to the STMs.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.2.1.10	8.2.1.10 At standstill V_Max may have a positive value and V_Min may have a negative value due to the resolution of the sensors.		False	False	False	Unknown		
8.2.1.11	8.2.1.11 At standstill V_Max and V_Min may have the same sign for short periods of time due to vibration or jerk.		False	False	False	Unknown		
8.2.1.12	8.2.1.12 To determine standstill V_Nom should be zero and the position (MAX_ODO and MIN_ODO) should not change.		False	False	False	Unknown		
8.2.1.12.0-1			False	False	False	Unknown		Figures are not requirements.
8.2.1.12.0-2	Figure 4 Speed parameters near zero speed		False	False	False	Unknown		
8.3	8.3 Distance		False	False	False	Unknown		
8.3.1	8.3.1 General		False	False	False	Unknown		
8.3.1.1	8.3.1.1 The ETCS Odometer function shall transmit the nominal distance to the STMs.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS	6.8.1.1.0, 6.8.2.2, 6.8.3.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						STM->STM DA DE OT OVR		
8.3.1.2	8.3.1.2 For any train movement, the STM shall be able to compute the most probable distance travelled between any two track positions by using the measurement values of D_Nom at both positions.	ETCS STM National STM European	True	False	False	Unknown		STM and ETCS internal
8.3.1.3	8.3.1.3 The ETCS Odometer function shall transmit all necessary information for the STM to determine its confidence interval to the STMs.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.3.1.4	8.3.1.4 The STM shall be able to determine the distance confidence interval, by using the information transmitted by the ETCS On-board.	ETCS	True	False	False	Unknown		Definition STM internal
8.3.1.5	8.3.1.5 Max_conf is defined as the measured distance between any two points counting all inaccuracies, margins and tolerances that add in the positive direction.		False	False	False	Unknown		Definition
8.3.1.6	8.3.1.6 Min_conf is defined as the measured distance between any two points counting all inaccuracies, margins and tolerances that add in the negative direction.		False	False	False	Unknown		Definition
8.3.1.7	8.3.1.7 The confidence intervals as derived by STMs should not be unnecessarily wide, as this may have an undesirable effect on operational performance.		False	False	False	Unknown		Definition
8.3.1.8	8.3.1.8 The confidence interval is not		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	transmitted in a direct way, but in parts that can be used to compute confidence intervals. The mandatory parts are							
8.3.1.8.0-1	Resolution part (D_Res),		False	False	False	Unknown		Definition
8.3.1.8.0-2	Accumulative part (D_Max, D_Min),		False	False	False	Unknown		Definition
8.3.1.8.0-3	and the optional stochastic parts are		False	False	False	Unknown		Definition
8.3.1.8.0-4	Stochastic model accumulative part (D_Max_Accum, D_Min_Accum)		False	False	False	Unknown		Definition
8.3.1.8.0-5	Confidence Level (M_K_ETCS)		False	False	False	Unknown		Definition
8.3.1.8.0-6	Sum of Variances (M_Max_SumVar, M_Min_SumVar)		False	False	False	Unknown		Definition
8.3.1.9	8.3.1.9 In case no stochastic part is used, K_ETCS = 0 shall be transmitted and the other parameters for the stochastic part shall not be transmitted.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.3.1.10	8.3.1.10 The STM shall derive distance and confidence interval by combining the parts according to the formulas and requirements given in section 8.5.		True	False	False	Unknown		STM internal
8.3.1.11	8.3.1.11 An STM may interpolate positions that are between two successive odometer reports. The requirements shall be derived by the STM development.		True	False	False	Unknown		STM internal
8.3.1.11.0-1			False	False	False	Unknown		Figures are not requirements.
8.3.1.11.0-2	Figure 5 Movement p1 to p2		False	False	False	Unknown		Figures are not requirements.

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8.3.1.11.0-2.0-1			False	False	False	Unknown		Figures are not requirements.
8.3.1.11.0-3	Figure 6 Movement p2 to p3		False	False	False	Unknown		Figures are not requirements.
8.3.1.12	8.3.1.12 Figure below illustrates how the confidence interval is formed if both negative and positive movements are included. Confidence interval for movement p1 to p3 can be computed according to the formulas even when position p2 is passed as a turning point. This is because the final confidence interval p1 to p3 contains the contributions from p1 to p2 and p2 to p3 without cancellation due to reversing.		False	False	False	Unknown		Figures are not requirements.
8.3.1.12.1	8.3.1.12.1 Note: The STM computation of a confidence interval would not need to make extra steps in case of a measurement that includes stopping or changes of movement direction.		False	False	False	Unknown		
8.3.1.12.1.0-1			False	False	False	Unknown		Figures are not requirements.
8.3.1.12.1.0-2	Figure 7 Movement from p1 via p2 to p3		False	False	False	Unknown		Figures are not requirements.
8.3.2	8.3.2 Nominal distance		False	False	False	Unknown		
8.3.2.1	8.3.2.1 The nominal distance D_Nom transmitted from the ETCS On-board odometer function to the STMs shall have the property:		True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR		ETCS internal
8.3.2.1.0-1	$D_Nom(p1, p3) = D_Nom(p1, p2) + D_Nom(p2, p3)$		True	False	False	SOM ASU		ETCS internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						ETCS->STM STM->ETCS STM->STM DA DE OT OVR		
8.3.3	8.3.3 Stochastic and non-stochastic confidence intervals		False	False	False	Unknown		
8.3.3.1	8.3.3.1 An ETCS On-board Odometer function shall transmit information to allow STMs to calculate non-stochastic distance confidence intervals.	ETCS	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR		Information should be available on the bus. General requirement covered by other ones.
8.3.3.2	8.3.3.2 An ETCS On-board Odometer function shall have the option to transmit information to allow STMs to calculate stochastic distance confidence intervals.	ETCS	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR		Definition General requirement covered by other ones.
8.3.3.3	8.3.3.3 An STM shall have the possibility to use only non-stochastic distance confidence intervals.	STM National STM European	True	False	False	Unknown		STM internal
8.3.3.4	8.3.3.4 If the ETCS On-board Odometer function transmits stochastic information, the STM may use stochastic distance confidence intervals.		False	False	False	Unknown		STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
8.3.3.5	8.3.3.5 Non-stochastic confidence intervals shall have the properties that fulfil the following equalities for any movement from p1 to p3, containing a position p2	ETCS	True	False	False	Unknown		ETCS internal
8.3.3.5.0-1	$Max_conf(p1, p3) = Max_conf(p1, p2) + Max_conf(p2, p3)$	ETCS	True	False	False	Unknown		ETCS internal
8.3.3.5.0-2	$Min_conf(p1, p3) = Min_conf(p1, p2) + Min_conf(p2, p3)$	ETCS	True	False	False	Unknown		ETCS internal
8.3.3.6	8.3.3.6 Stochastic confidence intervals shall be allowed to have non-linear properties constrained by the following in-equalities for any movement from p1 to p3, containing a position p2	ETCS	True	False	False	Unknown		ETCS internal
8.3.3.6.0-1	$Max_conf(p1, p3) = Max_conf(p1, p2) + Max_conf(p2, p3)$	ETCS	True	False	False	Unknown		ETCS internal
8.3.3.6.0-2	$Min_conf(p1, p3) = Min_conf(p1, p2) + Min_conf(p2, p3)$	ETCS	True	False	False	Unknown		ETCS internal
8.4	8.4 Distance Parameters		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
8.4.1	8.4.1 Nominal distance		False	False	False	Unknown		
8.4.1.1	8.4.1.1 The ETCS Odometer function shall transmit the nominal distance to the STMs in every odometer report.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.4.2	8.4.2 Resolution part		False	False	False	Unknown		
8.4.2.1	8.4.2.1 The Resolution part consists of all measurement accuracy limitations which does not grow with distance or time.		False	False	False	Unknown		Definition
8.4.2.2	8.4.2.2 Resolution part is defined as the non-		False	False	False	Unknown		Definition

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	accumulative limitation in precision of a single report.							
8.4.2.3	8.4.2.3 A distance measurement inaccuracy has contributions only from the reports that are taken at the endpoints of the distance. The resolution parts of intermediate reports are not relevant.		False	False	False	Unknown		Definition
8.4.2.3.1	8.4.2.3.1 Example: For odometers based on tachometer sensors the resolution part depends on the distance travelled for a pulse. As the sampling error can be almost one pulse in each direction the resolution part can be rounded to be the length travelled for one pulse counted. Further, a distance includes two endpoints, each adding to the resolution part, hence the distance resolution for this kind of sensor is the distance corresponding to (at least) two pulses.		False	False	False	Unknown		
8.4.2.4	8.4.2.4 The resolution part of an odometer report shall be given as a parameter in each odometer report from the ETCS odometer function. This allows for sensor technologies with varying resolution.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.4.2.4.1	8.4.2.4.1 Note: Tachometer sensors typically have a constant resolution, as the distance travelled for a pulse is not depending on speed or other factors. This is not necessarily true for other sensor technologies.		False	False	False	Unknown		
8.4.3	8.4.3 Accumulative part (non-stochastic model)		False	False	False	Unknown		
8.4.3.1	8.4.3.1 D_Max is defined as an odometer report parameter that changes in proportion to moved distance, but including all accumulative errors		False	False	False	Unknown		Definition

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	that brings estimation to the positive movement direction.							
8.4.3.2	8.4.3.2 D_Min is defined as an odometer report parameter that changes in proportion to moved distance, but including all accumulative errors that brings estimation to the negative movement direction.		False	False	False	Unknown		Definition
8.4.3.3	8.4.3.3 D_Max and D_Min shall have the properties that fulfil the following equalities for any movement from p1 to p3, containing a position p2	ETCS	True	False	False	Unknown		ETCS internal
8.4.3.3.0-1	$D_Max(p1, p3) = D_Max(p1, p2) + D_Max(p2, p3)$	ETCS	True	False	False	Unknown		ETCS internal
8.4.3.3.0-2	$D_Min(p1, p3) = D_Min(p1, p2) + D_Min(p2, p3)$	ETCS	True	False	False	Unknown		ETCS internal
8.4.4	8.4.4 Stochastic part (ETCS option)		False	False	False	Unknown		
8.4.4.1	8.4.4.1 Stochastic model accumulative part		False	False	False	Unknown		
8.4.4.1.1	8.4.4.1.1 In case the ETCS On-board Odometer function being stochastic, the stochastic model accumulative part is given by the following two parameters.	ETCS	False	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0	Definition
8.4.4.1.2	8.4.4.1.2 D_Max_Accum is defined as an odometer report parameter that changes in proportion to moved distance (accumulative part) and brings estimation to the positive movement direction.	ETCS	False	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT	6.8.1.1.0	Definition

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						OVR		
8.4.4.1.3	8.4.4.1.3 D_Min_Accum is defined as an odometer report parameter that changes in proportion to moved distance (accumulative part) and brings estimation to the negative movement direction.	ETCS	False	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0	Definition
8.4.4.1.4	8.4.4.1.4 D_Max_Accum and D_Min_Accum shall not contain the stochastic part.	ETCS	True	False	False	Unknown		Definition ETCS internal
8.4.4.1.5	8.4.4.1.5 The parameters D_Max_Accum and D_Min_Accum can only be used together with the associated stochastic parameters of the same odometer report.	STM National STM European	True	False	False	Unknown		Definition ETCS internal
8.4.4.2	8.4.4.2 Confidence Level		False	False	False	Unknown		
8.4.4.2.1	8.4.4.2.1 In case of a stochastic model, the ETCS Odometer reports shall include a parameter for confidence level.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0	
8.4.4.2.2	8.4.4.2.2 The confidence level (K) is defined as a level of probability that the true position is inside the confidence interval.		True	False	False	Unknown		Definition
8.4.4.2.2.1	8.4.4.2.2.1 Note: Some literature uses the term confidence interval where this text uses confidence level.		False	False	False	Unknown		Definition

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8.4.4.2.3	8.4.4.2.3 The confidence level is related to probability according to the table.		False	False	False	Unknown		Definition
8.4.4.2.3.0-1.0-1.0-1	Confidence Level, K		False	False	False	Unknown		
8.4.4.2.3.0-1.0-1.0-2	Probability %		False	False	False	Unknown		
8.4.4.2.3.0-1.0-2.0-1	1		False	False	False	Unknown		
8.4.4.2.3.0-1.0-2.0-2	68%		False	False	False	Unknown		
8.4.4.2.3.0-1.0-3.0-1	2		False	False	False	Unknown		
8.4.4.2.3.0-1.0-3.0-2	95%		False	False	False	Unknown		
8.4.4.2.3.0-1.0-4.0-1	3		False	False	False	Unknown		
8.4.4.2.3.0-1.0-4.0-2	99,7%		False	False	False	Unknown		
8.4.4.2.3.0-1.0-5.0-1	4		False	False	False	Unknown		
8.4.4.2.3.0-1.0-5.0-2	99,99%		False	False	False	Unknown		
8.4.4.2.3.0-1.0-6.0-1	5		False	False	False	Unknown		
8.4.4.2.3.0-1.0-6.0-2	99,9999%		False	False	False	Unknown		
8.4.4.2.3.0-1.0-7.0-1	6		False	False	False	Unknown		
8.4.4.2.3.0-1.0-7.0-2	99,999999%		False	False	False	Unknown		
8.4.4.2.3.0-1.0-8.0-1	7		False	False	False	Unknown		
8.4.4.2.3.0-1.0-8.0-2	99,99999999%		False	False	False	Unknown		
8.4.4.2.3.1	8.4.4.2.3.1 Note: The table coincides with the		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	standard deviation values corresponding to a normal distribution, this feature may be useful in analysis and proof of the ETCS odometer.							
8.4.4.2.4	8.4.4.2.4 The confidence level of the ETCS odometer (M_K_ETCS) shall be given in each report.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0	
8.4.4.2.5	8.4.4.2.5 The ETCS shall be allowed to lower the value of K_ETCS at runtime, but shall not increase.		True	False	True	Unknown		
8.4.4.2.5.0-1	Justification: An (optional) application for this is an ETCS using multiple sensors for its odometer. This may support a high confidence level K_ETCS. In case some sensors become unavailable, the odometer may remain operational but at a lower confidence level. The ETCS can express this by lowering K_ETCS. The STM will still compute proper (safe) confidence intervals also when the distance includes a decrease of K_ETCS. But increasing K_ETCS would not be safe as a distance may then be computed with a K_ETCS that is higher than the K_ETCS of some of the samples in the distance.		False	False	False	Unknown		Definition
8.4.4.3	8.4.4.3 Variance parameters		False	False	False	Unknown		
8.4.4.3.1	8.4.4.3.1 In case of a stochastic model, the ETCS Odometer reports shall include the sum of variance parameter of the stochastic part.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA	6.8.1.1.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						DE OT OVR		
8.4.4.3.2	8.4.4.3.2 The ETCS Odometer function shall report the accumulated sum of variance (starting from the power-on of the ETCS Odometer function) to the STMs. One sum for the positive movement direction M_Max_SumVar and another for the negative movement direction M_Min_SumVar.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0	
8.4.4.3.2.1	8.4.4.3.2.1 Note: The two parameters for sum of variance may be equal, for example the internal model may have only one stochastic parameter and in some way accumulate the worst-case side.		False	False	False	Unknown		
8.4.4.3.3	8.4.4.3.3 M_Max_SumVar is the sum of variance from the side of the confidence interval in the direction of positive movements.		False	False	False	Unknown		Definition
8.4.4.3.4	8.4.4.3.4 M_Min_SumVar is the sum of variance from the side of the confidence interval in the direction of negative movements.		False	False	False	Unknown		Definition
8.4.4.3.5	8.4.4.3.5 The sum of variance shall be reset together with the other odometer parameters (see chapter 8.1.1.15).		True	False	False	Unknown		ETCS internal See § in reference
8.4.4.3.6	8.4.4.3.6 The STM can then compute the standard deviation for a distance p1 to p2 as:		False	False	False	Unknown		STM internal
8.4.4.3.6.0-1			False	False	False	Unknown		STM internal
8.5	8.5 STM Distance		False	False	False	Unknown		
8.5.1	8.5.1 General		False	False	False	Unknown		
8.5.2	8.5.2 Non-stochastic		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
8.5.2.1	8.5.2.1 In case the Odometer reports contains $k_{ETCS} = 0$ (non-stochastic model) or the STM does not use the stochastic model, the STM shall compute distance confidence intervals according to the formulas in this section.	STM National STM European	True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR		STM internal
8.5.2.1.0-1		STM National STM European	True	False	False	Unknown		STM internal
8.5.2.2	8.5.2.2 The STM shall compute Max_conf for a movement p1 to p2 as:	STM National STM European	True	False	False	Unknown		STM internal
8.5.2.2.0-1	$Max_conf(p1,p2)=Max_odo(p2)-Max_odo(p1)+res_part(p1,p2)$	STM National STM European	True	False	False	Unknown		STM internal
8.5.2.3	8.5.2.3 The STM shall compute Min_conf for a movement p1 to p2 as:	STM National STM European	True	False	False	Unknown		STM internal
8.5.2.3.0-1	$Min_conf(p1, p2) = Min_odo(p2)-Min_odo(p1)-res_part(p1,p2)$	STM National STM European	True	False	False	Unknown		STM internal
8.5.3	8.5.3 Stochastic		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
8.5.3.1	8.5.3.1 In case the Odometer reports contains $k_{ETCS} > 0$ (stochastic model) and the STM uses the stochastic model, the STM shall compute distance confidence intervals according to the formulas in this section.	STM National STM European	True	False	False	Unknown		STM internal
8.5.3.1.0-1		STM National STM European	True	False	False	Unknown		STM internal
8.5.3.1.0-2		STM National STM European	True	False	False	Unknown		STM internal
8.5.3.1.0-3		STM National STM European	True	False	False	Unknown		STM internal
8.5.3.1.0-4		STM National STM European	True	False	False	Unknown		STM internal
8.5.3.1.0-5		STM National STM European	True	False	False	Unknown		STM internal
8.5.3.2	8.5.3.2 The parameter k_{stm} is the confidence level required for the STM. The table defining k_{etcs} applies, see 8.4.4.2.3.	STM National STM European	False	False	False	Unknown		Definition
8.5.3.3	8.5.3.3 The STM shall compute Max_conf for a movement p1 to p2 as:	STM National STM	True	False	False	Unknown		STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		European						
8.5.3.3.0-1	$Max_conf(p1,p2) = Max_acc_part(p1,p2) + res_part(p1,p2) + Max_stoch_part(p1,p2)$	STM National STM European	True	False	False	Unknown		STM internal
8.5.3.4	8.5.3.4 The STM shall compute Min_conf for a movement p1 to p2 as:	STM National STM European	True	False	False	Unknown		STM internal
8.5.3.4.0-1	$Min_conf(p1,p2) = - Min_acc_part(p1,p2) - res_part(p1,p2) - Min_stoch_part(p1,p2)$	STM National STM European	True	False	False	Unknown		STM internal
8.5.4	8.5.4 Data representation		False	False	False	Unknown		
8.5.4.1	8.5.4.1 The following requirements apply to distance parameters D_Nom, D_Max, D_Min, M_Max_SumVar and M_Min_SumVar.		False	False	False	Unknown		
8.5.4.2	8.5.4.2 The distance parameters and the sum of variances are allowed to wrap when exceeding the value range. The parameters wrap individually.	ETCS	False	False	False	Unknown		Definition
8.6	8.6 Direction		False	False	False	Unknown		
8.6.1	8.6.1		False	False	False	Unknown		
8.6.1.1	8.6.1.1 The ETCS On-board Odometer function shall report to the STMs if the direction information is ambiguous or not.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE	6.8.1.1.0, 6.8.2.2, 6.8.3.2	Only presence of the qualifier should be checked.

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OT OVR		
8.6.1.2	8.6.1.2 ETCS On-board Odometer function shall give information about direction of movement by the sign of speed, and the change of distance (increase/decrease).	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.7	8.7 Configuration information		False	False	False	Unknown		
8.7.1	8.7.1		False	False	False	Unknown		
8.7.1.1	8.7.1.1 The ETCS On-board odometer function shall transmit performance-related information (configuration data) over the FFFIS STM. The transmission shall be repeated to support restarting STMs.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	6.8.1.1.0, 6.8.2.2, 6.8.3.2	
8.7.1.2	8.7.1.2 The STM may check the performance-related information (e.g. accuracy, ageing) according to the national requirements.		False	False	False	Unknown		
8.7.1.2.1	8.7.1.2.1 Note: The processing of the check results is out of scope of this specification.		False	False	False	Unknown		
8.7.1.2.1.0-1			False	False	False	Unknown		Figures are not requirements.
8.7.1.2.1.0-2	Figure 8 Total inaccuracy of speed and distance		False	False	False	Unknown		Figures are not requirements.
8.7.1.3	8.7.1.3 Performance parameters defined as		False	False	False	Unknown		Definition

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	"typical" should be thought of as "worst case under nominal conditions" and may well be exceeded under special conditions.							
8.7.1.4	8.7.1.4 Performance parameters defined as "max" should hold under "worst case conditions" and should not be exceeded except for improbable conditions.		False	False	False	Unknown		
8.7.1.4.1	8.7.1.4.1 Note: The definition of "max" does not necessarily include "worst worst case conditions" such as presence of improbable equipment faults.		False	False	False	Unknown		
8.7.1.5	8.7.1.5 The total typical speed inaccuracy should be within (+/-) the envelope of the sum of Absolute Speed Accuracy and Relative Speed Accuracy.		False	False	False	Unknown		
8.7.1.6	8.7.1.6 The total typical distance inaccuracy should be within (+/-) the envelope of the sum of Absolute Distance Accuracy and Relative Distance Accuracy.		False	False	False	Unknown		
8.7.1.6.1	8.7.1.6.1 Note: These total inaccuracies have a comparable format as the odometer inaccuracy performance requirements of /17/ SUBSET-041 Performance Requirements for Interoperability, that apply for Levels 1-3.		False	False	False	Unknown		
8.7.1.7	8.7.1.7 Absolute Speed Accuracy, N_V_Abs, is defined as the typical non-speed dependent limitation of accuracy in speed measurements that are reported by ETCS On-board Odometer function. This is therefore the minimum speed inaccuracy. The parameter unit is km/h.		False	False	False	Unknown		
8.7.1.8	8.7.1.8 Relative Speed Accuracy, N_V_Rel, is defined as the typical speed dependent limitation of accuracy in speed measurements that are reported by ETCS On-board Odometer function. The parameter express percentage (no unit).		False	False	False	Unknown		
8.7.1.9	8.7.1.9 Absolute Distance Accuracy, N_D_Abs,		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	is defined as the typical non-speed dependent limitation of accuracy in distance measurements as calculated by STM. The parameter unit is cm.							
8.7.1.9.1	8.7.1.9.1 Note: The Absolute Distance Accuracy normally corresponds to the length of confidence intervals of short distances at lower speeds.		False	False	False	Unknown		
8.7.1.9.2	8.7.1.9.2 Note: The Absolute Distance Accuracy parameter is at least 2* D_Res, as resolution counts twice in a confidence interval.		False	False	False	Unknown		
8.7.1.9.3	8.7.1.9.3 Relative Distance Accuracy, N_D_Rel, is defined as the typical speed dependent limitation of accuracy in distance measurements as calculated by STM. The parameter express percentage (no unit).		False	False	False	Unknown		
8.7.1.9.3.0-1			False	False	False	Unknown		
8.7.1.9.3.0-2	Figure 9 Odometer cycle and delay times		False	False	False	Unknown		
8.7.1.10	8.7.1.10 Typical cycle time, T_OdoCycle is the typical time for the odometer cycle time between each generating of new odometer data.		False	False	False	Unknown		
8.7.1.11	8.7.1.11 Maximum production delay time, T_OdoMaxProd is the maximum ageing of odometer data from when the data was true until the data is available on the bus. This shall include clock synchronisation inaccuracy of the Odometer function.		False	False	False	Unknown		
8.8	8.8 Application notes on Stochastic odometry (non-normative and not reviewed)		False	False	False	Unknown		
8.8.1	8.8.1 Introduction		False	False	False	Unknown		
8.8.1.1	8.8.1.1 The application notes are not normative. They are only intended to help understanding the principles of, and possible ways to apply, the requirements on odometry and the		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	stochastic model in particular.							
8.8.1.2	8.8.1.2 The application notes are mainly intended for the designers of ETCS On-board Odometry function, but may be helpful also for STM designers.		False	False	False	Unknown		
8.8.2	8.8.2 Stochastic Odometer models		False	False	False	Unknown		
8.8.2.1	8.8.2.1 The ETCS Odometer internal model is defined as some algorithm inside the ETCS On-board Odometer function for processing sensor data into odometer information. The internal model is purely design and implementation matter and outside scope of this specification. The results from the internal model shall be transformed to odometer reports transmitted to the STMs and that are conforming to the requirements of this specification.		False	False	False	Unknown		
8.8.2.2	8.8.2.2 Note: The issues treated in this chapter relate in principle also for speed parameters, but will manifest only for distance.		False	False	False	Unknown		
8.8.2.3	8.8.2.3 The internal model may regard the sensor data to have properties such that the measurement error is bounded to some fixed limits (judged approximations may be part of this). In this case the internal model is said to be non-stochastic.		False	False	False	Unknown		
8.8.2.4	8.8.2.4 Alternatively, the internal model may regard the sensor data to contain some amount of random noise and estimate a noise component of measurements. In this case the internal model is said to be stochastic.		False	False	False	Unknown		
8.8.2.5	8.8.2.5 The STM need not to know details about the odometer internal model and other analysis/design considerations of the ETCS Odometer.		False	False	False	Unknown		
8.8.2.6	8.8.2.6 In case of a stochastic model, the odometer reports contain additional information		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	such that the STMs can calculate the stochastic part of a distance confidence interval.							
8.8.2.7	8.8.2.7 An ETCS Odometer can only be either non-stochastic or stochastic towards the STMs. This may not change during run-time.		False	False	False	Unknown		
8.8.2.8	8.8.2.8 In case an Odometer is generally considered non-statistical, but under special conditions has statistical behaviour, such an Odometer should report as being statistical all the time to the STM. But the reported statistical part would be zero except under the special conditions.		False	False	False	Unknown		
8.8.2.9	8.8.2.9 An Odometer may have a statistical internal model processing noise from sensors, but make purely non-stochastic reports. In this case the Odometer has to either perform some filtering of the sensor noise and/or make safe-side rounding such that odometer reports can be purely non-stochastic, fulfilling the requirements for a non-stochastic odometer at the STM interface and for the STMs.		False	False	False	Unknown		
8.8.2.10	8.8.2.10 The following diagrams illustrate the two different principles.		False	False	False	Unknown		
8.8.2.10.0-1			False	False	False	Unknown		
8.8.2.10.0-2	Figure 10 How internal model's distribution can map to either statistical or non-statistical confidence interval		False	False	False	Unknown		
8.8.2.11	8.8.2.11 The odometer reports from an ETCS Odometer based on a stochastic model contain all the parameters of the non-stochastic, but add some parameters for the stochastic parameters. From the viewpoint of this specification the stochastic model is a pure extension of the non-stochastic model.		False	False	False	Unknown		
8.8.2.12	8.8.2.12 Example: Chosen Odometer sensor(s) are regarded as noisy. But the calibration		False	False	False	Unknown		

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	tolerance is not stochastic in nature, but rather linear so the calibration tolerance is allocated to the accumulative parameters (defined later). Then the internal distribution curve for a travelled distance is the envelope of the stochastic distribution of the sensor, but with an offset for the tolerance of calibration.							
8.8.2.12.0-1			False	False	False	Unknown		
8.8.2.12.0-2	Figure 11 How parts are combined to statistical distribution curve		False	False	False	Unknown		
8.8.3	8.8.3 Confidence intervals with stochastic part		False	False	False	Unknown		
8.8.3.1	8.8.3.1		False	False	False	Unknown		
8.8.3.1.1	8.8.3.1.1 The choice of a statistical internal model is a design decision of the ETCS odometer.		False	False	False	Unknown		
8.8.3.1.2	8.8.3.1.2 A statistical internal model typically leads to a design choice to add a statistical part to the Odometer reports.		False	False	False	Unknown		
8.8.3.1.3	8.8.3.1.3 The statistical extension is modelled around normal distribution (Gaussian) and provides the STM data to compute the standard deviation of any distance measurement, and to extend the distance confidence interval with the standard deviation. Definitions and details are given in 3 "Stochastic part (ETCS option)".		False	False	False	Unknown		
8.8.3.1.3.1	8.8.3.1.3.1 Justification 1: The sum of many independent measurements approaches a normal distribution, even when the distribution of the measurements has another shape.		False	False	False	Unknown		
8.8.3.1.3.2	8.8.3.1.3.2 Justification 2: The normal distribution has good properties for analysis, and any other distribution can be made to approximate or fit inside a normal distribution.		False	False	False	Unknown		
8.8.3.1.3.2.0			False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
-1								
8.8.3.1.3.2.0-2	Figure 12 How odometer report parameters build statistical distribution and STM distance confidence interval at $k_{STM}=2$		False	False	False	Unknown		
8.8.3.1.4	8.8.3.1.4 The STM shall be able to recompute the confidence level to correspond to its safety requirements, in particular an allocated tolerable hazard rate for odometer distance measurements. This allows for trade-offs between safety and accuracy, potentially improving performance of operation. The national systems may have quite different views on the safety of odometry information.		False	False	False	Unknown		
8.8.3.1.5	8.8.3.1.5 The ETCS odometer internal model may have any type of distribution curve. If another curve than normal distribution is used, the statistical parameters in the odometer reports shall be made such that the STM will compute the distance confidence interval being equal or larger than the corresponding interval according to the ETCS internal odometer model. This shall be true for any distance and for any valid confidence level of STM (k_{STM}).		False	False	False	Unknown		
8.8.3.1.6	8.8.3.1.6 The statistical extension makes the approximation that the measurements are uncorrelated, as the normal distribution has this as a basic assumption.		False	False	False	Unknown		
8.8.3.1.7	8.8.3.1.7 The approximation that all measurement samples are uncorrelated need to be judged for the specific internal model against the arguments below and the need to keep the statistical extension simple.		False	False	False	Unknown		
8.8.3.1.8	8.8.3.1.8 Clarification: If the correlation is sufficiently temporary the distance fragment with correlation would not dominate the measured distance. If the measured distance is short, the probability of large correlation in the population of measurement increases, but the		False	False	False	Unknown		

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	absolute error would not be very large (but possibly the relative error).							
8.8.3.1.8.1	8.8.3.1.8.1 Note: The statistical extension should be kept reasonably simple, as there is a need for cross-acceptance of a Notified Body approval by the National Body of the Odometer properties. The Odometer information needs to be sufficiently expressive for even demanding applications, and simple enough to support trust in safety and cross-acceptance. This specification aims at finding an optimum compromise.		False	False	False	Unknown		
8.8.3.1.9	8.8.3.1.9 Justification 3: In case the individual measurements have a significant stochastic part, this has to influence the confidence interval. But the contribution due to a sum of stochastic variables does add slower than linearly. By allowing the statistical extension, the confidence interval of a distance measurement may be smaller compared to a linear accumulative calculation.		False	False	False	Unknown		
8.8.3.1.10	8.8.3.1.10 Justification 4: Although the ETCS works with a high level of confidence in distance measurements, a national system may be defined to work with a lower level of confidence. The statistical extension allows recalculation to a different confidence level, trading safety for accuracy.		False	False	False	Unknown		
8.8.3.1.11	8.8.3.1.11 Justification 5: For a short distance measurement the stochastic contribution may need to be taken on a worst-case basis. The same measurements also being part of a long distance measurement, the stochastic contributions will with a very high probability cancel out or average to some value. The statistical extension can combine safer short measurements with accurate longer distances in presence of stochastics in measurements.		False	False	False	Unknown		

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9	9 Supervision function (European mode only) TBD		False	False	False	Unknown		
9.1	9.1		False	False	False	Unknown		
9.1.1	9.1.1		False	False	False	Unknown		
9.1.1.1	9.1.1.1 This function still has to be defined. The requirements listed within this chapter are not normative. They just give basic principles.		False	False	False	Unknown		
9.1.2	9.1.2 STM Profile data		False	False	False	Unknown		
9.1.2.1	9.1.2.1 STM Profile data (see chapter 4.1.2.4.2) shall be transmitted from the STM in order to allow train movement.		False	False	False	Unknown		
9.1.2.2	9.1.2.2 The STM Profile issued by the STM shall always represent the allowed train movement for the target system.		False	False	False	Unknown		
9.1.3	9.1.3 EOA Overpass		False	False	False	Unknown		
9.1.3.1	9.1.3.1 The ETCS on-board shall report to the STM when the train passes EOA (Train Trip).		False	False	False	Unknown		
9.1.3.2	9.1.3.2 When train is outside the STM Profile (e.g. beyond EOA) the ETCS on-board is responsible for bringing the train to standstill. The STM Profile stored in ETCS on-board shall be erased.		False	False	False	Unknown		
9.1.3.3	9.1.3.3 The ETCS on-board shall not accept a new STM Profile unless the STM acknowledges the EOA Overpass situation.		False	False	False	Unknown		
9.1.4	9.1.4 Reference Locations		False	False	False	Unknown		
9.1.4.1	9.1.4.1 Reporting of Reference Location identity shall be with odometer position and time of passage (Reference Time (see chapter 5.2.2)).		False	False	False	Unknown		
9.1.4.2	9.1.4.2 A Reference Location is a fixed location in the national infrastructure and defined by		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	national trackside transmission equipment. The Reference Location is detected by STM On-board transmission equipment.							
9.1.4.2.1	9.1.4.2.1 Note: Examples of national trackside transmission equipment are balises, loop crossings, magnets and coils.		False	False	False	Unknown		
9.1.4.2.2	9.1.4.2.2 Note: Reference Location for Level STM corresponds to Reference Location and Last Relevant Balise Group, LRBG defined for ETCS Levels 1, 2 and 3.		False	False	False	Unknown		
9.1.4.3	9.1.4.3 The STM shall take the inaccuracy of the reference location into account while computing the STM profile to be transmitted to the ETCS On-board.		False	False	False	Unknown		
10	10 DMI, Driver Machine Interface		False	False	False	Unknown		
10.1	10.1 Scope		False	False	False	Unknown		
10.1.1	10.1.1		False	False	False	Unknown		
10.1.1.1	10.1.1.1 Technical interoperability is required at the STM FFFIS. To achieve this, the functions for accessing DMI through the STM FFFIS shall be defined strictly.		False	False	False	Unknown		
10.1.1.2	10.1.1.2 Operational interoperability is out of scope. Therefore, this specification does not specify any layout or look-and-feel of the interface to the driver		False	False	False	Unknown		
10.1.1.3	10.1.1.3 The specification allows for some different design of DMI.		False	False	False	Unknown		
10.1.1.4	10.1.1.4 There may be different approaches for the DMI. We shall consider the DMI from three different aspect:		False	False	False	Unknown		
10.1.1.4.0-1	Hardware aspect		False	False	False	Unknown		
10.1.1.4.0-2	Functional aspect		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.1.1.4.0-3	Layout aspect		False	False	False	Unknown		
10.2	10.2 DMI from the hardware aspect		False	False	False	Unknown		
10.2.1	10.2.1		False	False	False	Unknown		
10.2.1.1	10.2.1.1 Two types of DMI hardware platform may be used by the STM:		False	False	False	Unknown		
10.2.2	10.2.2 The ETCS On-board DMI platform		False	False	False	Unknown		
10.2.2.1	10.2.2.1 This hardware DMI platform is the one used by the ETCS On-board while operating in ETCS level 0, 1, 2, and 3.		False	False	False	Unknown		Definition
10.2.2.2	10.2.2.2 This shall be the preferred hardware DMI platform to be used also by the STM while the ETCS On-board is in level STM.		True	False	False	Unknown		
10.2.2.3	10.2.2.3 This hardware DMI platform shall be called within this specification: "ETCS On-board DMI platform".		False	False	False	Unknown		Definition
10.2.2.4	10.2.2.4 The ETCS On-board DMI platform shall be considered as part of the ETCS On-board.		False	False	False	Unknown		Definition
10.2.3	10.2.3 The separate STM DMI platform		False	False	False	Unknown		
10.2.3.1	10.2.3.1 If for RAMS or ergonomic reasons, the ETCS On-board DMI platform can not be used, a separate hardware dedicated to the STM can be used. This separate hardware DMI platform shall be called within this document: "Separate STM DMI platform".		False	False	False	Unknown		Definition
10.2.3.2	10.2.3.2 The use of Separate STM DMI platform shall be optional.		False	False	False	Unknown		
10.2.3.3	10.2.3.3 A Separate STM DMI platform shall be connected directly to the STM and is part of the STM installation.		True	False	False	Unknown		STM internal
10.2.3.4	10.2.3.4 The activation conditions and usage of		True	False	False	Unknown		STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	the separate STM DMI platform is fully under responsibility of the STM and shall not be restricted by the ETCS On-board.							
10.2.3.5	10.2.3.5 The Separate STM DMI platform shall be considered as part of the STM hardware and shall be controlled by the STM itself.		True	False	False	Unknown		STM internal
10.2.3.6	10.2.3.6 The usage of Separate STM DMI platform shall be minimised. The STM shall be designed as far as possible to work without requiring Separate STM DMI platform.		True	False	False	Unknown		STM internal
10.2.3.6.1	10.2.3.6.1 Examples: The Separate STM DMI platform may be a single lamp, button or moving coil meter that cannot be supported by the ETCS On-board DMI platform.		False	False	False	Unknown		
10.2.3.7	10.2.3.7 There shall be no connection and no shared hardware between the separate STM DMI platform and the ETCS On-board.		True	False	False	Unknown		STM internal
10.2.3.8	10.2.3.8 As the separate STM DMI platform is part of the STM design, it shall not be considered anymore within this specification.		False	False	False	Unknown		Defintion
10.3	10.3 DMI from the functional aspect		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
10.3.0-1			False	False	False	Unknown		Figures are not requirements.
10.3.0-2	Figure 13: Functional DMI aspect		False	False	False	Unknown		
10.3.0-2.1	10.3.0-2.1 The ETCS DMI function is the interface of the ETCS On-board to the driver. That means that all inputs from the driver to the ETCS On-Board and all outputs from the ETCS On-board to the driver are controlled by this function.		False	False	False	Unknown		Definition
10.3.0-2.2	10.3.0-2.2 The ETCS DMI function uses the ETCS On-board DMI platform to interact with the driver.		False	False	False	Unknown		Definition
10.3.0-2.3	10.3.0-2.3 The DMI function is described as the control / inhibition (see chapter 10.7.2.5 and		False	False	False	Unknown		Definition

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	10.7.3.5) of DMI objects.							
10.3.0-2.4	10.3.0-2.4 To allow the STM to interact with the driver, the ETCS DMI function shall give the STM access to the defined objects listed within chapter 10.6.		True	False	False	Unknown		Covered by other requirements.
10.3.0-2.5	10.3.0-2.5 There are three categories of objects:		False	False	False	Unknown		Definition
10.3.0-2.5.0-1	Objects which are controlled by the ETCS only,f		False	False	False	Unknown		Definition
10.3.0-2.5.0-2	Objects which are controlled by the STM only,		False	False	False	Unknown		Definition
10.3.0-2.5.0-3	Objects which are controlled by either ETCS or STM.		False	False	False	Unknown		Definition
10.3.0-2.6	10.3.0-2.6 The control of the DMI objects means that the ETCS and/or STM is able to activate (to request display) or deactivate (to request not to display) the DMI objects and to change their attributes (colour, icon, ...). Refer to chapter 10.6.		False	False	False	Unknown		Definition
10.3.0-2.7	10.3.0-2.7 Some "objects controlled by the ETCS only" can be inhibited by the STM (request to not display whatever is the control of this object).	ETCS	False	False	False	Unknown		Definition
10.3.0-2.8	10.3.0-2.8 Objects which are controlled by the ETCS only and cannot be inhibited by the STM are not part of the FFFIS STM.		False	False	False	Unknown		Definition
10.3.0-2.9	10.3.0-2.9 The STM access to DMI objects shall depend on ETCS technical mode (STM European or STM National). See chapter 10.7.		True	False	False	Unknown		Covered by other requirements. See ref.
10.3.0-2.10	10.3.0-2.10 The objects that can be controlled by the STM are:	ETCS	False	False	False	Unknown		Definition
10.3.0-2.10.0-1	For driver inputs to the STM: buttons, text message acknowledgements,	ETCS	False	False	False	Unknown		Definition
10.3.0-2.10.0-2	For STM outputs to driver: indicators, text messages, supervision information (targets speed and distance, speed related indications, distance related indications: permitted speed,	ETCS	False	False	False	Unknown		Definition

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	permitted distance, warnings...) and sounds.							
10.3.0-2.11	10.3.0-2.11 The DMI function may have the knowledge of STM specific object definition or not.		False	False	False	Unknown		
10.3.0-2.12	10.3.0-2.12 <u>Remark</u> : Data entry is not a direct interface between the STM and the ETCS DMI function. It shall not be considered within this chapter. Refer to chapter 13.1.1.		False	False	False	Unknown		
10.4	10.4 DMI from the layout aspect		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
10.4.1	10.4.1		False	False	False	Unknown		
10.4.1.1	10.4.1.1 A layout shall be considered as the way of presenting information to the driver.		False	False	False	Unknown		
10.4.1.2	10.4.1.2 The possibility to use several types of layouts shall be considered within this specification.		False	False	False	Unknown		
10.4.1.3	10.4.1.3 The DMI function may have the knowledge of STM specific layout definition or not.		False	False	False	Unknown		
10.4.2	10.4.2 Interoperable DMI		False	False	False	Unknown		
10.4.2.1	10.4.2.1 Different layouts shall be considered to present the information from the STM to the driver. At least, one layout may be considered for each of the possible STM.		False	False	False	Unknown		Definition
10.4.2.2	10.4.2.2 An interoperable DMI is a DMI that shall be configured for all STMs. It means:		False	False	False	Unknown		Definition
10.4.2.2.0-1	that the DMI is able to present information in the way required (layout) for all respective national systems,		False	False	False	Unknown		Definition
10.4.2.2.0-2	and that the DMI knows the definition of all DMI objects used by the respective STM and by the ETCS On-board.		False	False	False	Unknown		Definition
10.4.3	10.4.3 Customised DMI		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.4.3.1	10.4.3.1 A customised DMI is a strict subset of the Interoperable DMI.		False	False	False	Unknown		Definition
10.4.3.2	10.4.3.2 A customised DMI is a DMI, which is configured for at least one STM. It means:		False	False	False	Unknown		Definition
10.4.3.2.0-1	that the DMI is able to present information in the way required (layout) for at least one national system,		False	False	False	Unknown		Definition
10.4.3.2.0-2	and that the DMI knows the definition of all DMI objects used by the respective STM and by the ETCS On-board.		False	False	False	Unknown		Definition
10.4.4	10.4.4 Unified DMI		False	False	False	Unknown		
10.4.4.1	10.4.4.1 A unified DMI is a DMI based on the DMI layout used by the ETCS On-board while operating in Level 0, 1, 2, and 3.		False	False	False	Unknown		Definition
10.4.4.2	10.4.4.2 The unified DMI shall not have STM specific layout.		True	False	False	Unknown		ETCS internal
10.4.4.3	10.4.4.3 The Unified DMI shall reserve areas to be used by the STM: area for buttons, area for indicators (see also chapter 10.6.4.5 and 10.6.5.7).		True	False	False	Unknown		ETCS internal
10.4.4.4	10.4.4.4 The unified DMI shall share the text area between the STM and the ETCS On-board.		True	False	False	Unknown		ETCS internal
10.4.4.5	10.4.4.5 STM supervision information shall be displayed in the way it is done while operating in Level 0, 1, 2 and 3.		True	False	False	Unknown		ETCS internal
10.4.4.6	10.4.4.6 The Unified DMI shall have the knowledge of STM specific object definition or not.		False	False	False	Unknown		
10.4.4.6.1	10.4.4.6.1 Note: If the Unified DMI doesn't know the STM specific object definition, a default definition of the DMI object given by the STM will be used.		False	False	False	Unknown		
10.5	10.5 General requirements regarding DMI function		False	False	False	Unknown		
10.5.1	10.5.1 ETCS On-board and STM requirements		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	regarding DMI function							
10.5.1.1	10.5.1.1 Independently of the DMI design, communication on the STM FFFIS shall be the same (see 4.1)	ETCS STM National STM European	True	False	False	Unknown		Covered by other requirements.
10.5.1.2	10.5.1.2 Due to availability reasons, the ETCS on-board may provide a redundant DMI per cab.		False	False	False	Unknown		
10.5.1.3	10.5.1.3 The STM shall be able to open or not the communication with the redundant DMI depending on its own availability targets.		False	False	False	Unknown		
10.5.2	10.5.2 ETCS On-board requirements regarding DMI function		False	False	False	Unknown		
10.5.2.1	10.5.2.1 The ETCS On-board shall allow only one STM to have access to the DMI at one time.	ETCS	True	True	False	DA		cover with 5.2.10.1.0.3.0.1-6.0.16 (Not cover to check) check that the information to be displayed from the second STM (not in DA state) is not displayed.
10.5.2.2	10.5.2.2 After the transition from an STM to another system (ETCS or STM), the ETCS On-board shall delete all DMI objects controlled by the previous active STM.	ETCS	True	True	False	STM->ETCS STM->STM	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 4c.0.0.0.0.1.0, 4c.0.0.0.0.2.0	
10.5.2.3	10.5.2.3 When the ETCS on-board receives a request for a DMI object from the STM and does not know the object definition, the ETCS on-board shall use the default definition of the object as sent by the STM.	ETCS	True	True	True	DA	6.1.1.1.0.0	
10.5.2.4	10.5.2.4 If the ETCS on-board does not support the requested object and the default definition was not sent by the STM, the ETCS on-board shall order the STM to Failure State.	ETCS	True	False	False	DA		
10.5.2.5	10.5.2.5 The ETCS On-board shall give the STM the possibility to request objects (indicators and	ETCS	True	True	False	DA	6.1.2.2	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	buttons) to be displayed always at a fixed position.							
10.5.2.6	10.5.2.6 The ETCS On-board shall be able to receive preliminary request for DMI objects from an STM being in HS state. The ETCS On-board shall be allowed to ignore this information.	ETCS	True	True	False	ETCS->STM STM->STM	3b.3.1, 3b.4.1, 3b.5.1, 3b.6.1, 3b.7.1, 3b.8.2.0	
10.5.2.6.1	10.5.2.6.1 Note: The sending of preliminary request is to allow the DMI function to prepare in background the information to be presented to the driver once the STM switches to Data Available state.		False	False	False	Unknown		
10.5.2.6.2	10.5.2.6.2 Note: This is to avoid a gap of the display at level transition and to have a one shot up-date of the screen to display STM information at level transition.		False	False	False	Unknown		
10.5.2.7	10.5.2.7 While the ETCS On-board is in the Sleeping (SL) technical mode, the ETCS On-board shall ignore all STM request for DMI objects even if the STM is in Data Available (DA) State.	ETCS	True	True	False	DA	6.1.3.2	
10.5.2.8	10.5.2.8 The ETCS DMI function shall transmit the selected language to the STM, when a new connection from the STM to the ETCS DMI function is established and to all STMs connected to the ETCS DMI function whenever the language is changed.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	3a.0.0.1.1.1.0.0.0, 3a.0.0.1.2.1.0.1.0.0.0, 3a.0.0.1.2.2.2.0.1.0.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.5.1.0.1.0, 6.2.0.0.0.0.0	
10.5.3	10.5.3 STM requirements regarding DMI function		False	False	False	Unknown		
10.5.3.1	10.5.3.1 When the STM requests a DMI object (button, indicator, and sound) to the ETCS DMI function, this request shall contain a default definition of the objects.	STM National STM European	True	False	False	ETCS->STM STM->STM DA		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.5.3.2	10.5.3.2 The STM can request necessary buttons and indicators by referencing object identifiers (see chapter 10.6.2).		False	False	False	Unknown		
10.5.3.3	10.5.3.3 The STM in Hot Standby shall be allowed to send preliminary request for DMI objects to the ETCS On-board.		True	False	False	Unknown		STM internal
10.5.3.4	10.5.3.4 If the ETCS technical mode is SL, the STM shall not send any request for DMI objects to the ETCS On-board DMI function (including preliminary requests).	STM National STM European	True	True	False	ETCS->STM STM->STM DA	6.1.3.2	
10.5.3.5	10.5.3.5 The STM shall send a request with the required status of all DMI objects to the ETCS On-board after switching from CS or HS to DA state.	STM National STM European	True	True	False	ETCS->STM STM->STM	3c.1.0.1.0.1.3.0.0, 3c.1.0.2.1.3.0.0, 3c.1.0.3.1.2.0, 3c.1.0.4.1.3.0.0, 3c.1.0.4.2.0.1.0, 3c.1.0.5.1.0.1.0	
10.5.3.6	10.5.3.6 When receiving the language selected by the driver, the STM may use this information or not.		False	False	False	Unknown		STM internal
10.6	10.6 DMI Objects		False	False	False	Unknown		
10.6.1	10.6.1 General		False	False	False	Unknown		
10.6.1.1	10.6.1.1 When in Level STM, the STM can use the DMI objects also used by the ETCS On-board. If so, the semantics and actions associated with the DMI objects shall be the same as for Levels 0, 1, 2 and 3.	ETCS	True	False	False	Unknown		
10.6.1.1.1	10.6.1.1.1 Note: The appearance and technology for implementing the DMI Objects are not specified within the STM FFFIS. The use of a DMI object (button, indicator, sounds, text message, etc.) by an STM has to be consistent regardless of which STM is active. The look-and-feel or meaning of DMI objects are not allowed to alter during mission with different STMs at different time of operation.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.6.1.2	10.6.1.2 DMI objects like buttons, indicators, sounds and supervision information have a default definition which shall be used by the ETCS DMI function if those object are not configured within the DMI.		True	False	False	Unknown		Covered by other requirements.
10.6.2	10.6.2 DMI Object identities		False	False	False	Unknown		
10.6.2.1	10.6.2.1 All DMI objects (indicators, buttons etc.) used by all the different target systems are assigned a unique object identity made of STM Identifier and Object Identifier.		False	False	False	Unknown		Definition
10.6.2.2	10.6.2.2 The maximum entries for a set of buttons/Indicators/sounds of a target system (STM Identifier + Object Identifier) shall be 255.		False	False	False	Unknown		Definition
10.6.2.3	10.6.2.3 All icons (graphic symbols) used by all the different target systems are assigned a unique graphic identity made of STM Identifier and Icon Identifier.		False	False	False	Unknown		Definition
10.6.2.4	10.6.2.4 The maximum entries for a set of icons of a target system (STM Identifier + Object Identifier) shall be 255.		False	False	False	Unknown		Definition
10.6.2.5	10.6.2.5 The object identities and graphic identities are used in the communication between STM and the ETCS On-board DMI function.		False	False	False	Unknown		Definition
10.6.2.6	10.6.2.6 For each target system, Buttons and Indicators share the same set of icons (Buttons and Indicators may display the same icon).		False	False	False	Unknown		Definition
10.6.2.7	10.6.2.7 An object identity provides an identity of a national DMI function. This allows for customisation related to this object. This is only a possibility, not a requirement.		False	False	False	Unknown		Definition
10.6.2.8	10.6.2.8 The various DMI Object types are defined here below.		False	False	False	Unknown		Definition
10.6.3	10.6.3 Text messages, Acknowledgement		False	False	False	Unknown		
10.6.3.1	10.6.3.1 All text messages from STMs are	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	displayed in the order of their reception by the ETCS On-board.							
10.6.3.1.1	10.6.3.1.1 Exception: A message, which requires driver acknowledgement shall not be hidden behind a message, which does not require a driver acknowledgement.	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.6.3.2	10.6.3.2 The STM can request a text message by supplying the ETCS DMI function with a string of text to be shown to the driver.		False	False	False	Unknown		Definition
10.6.3.3	10.6.3.3 The STM can request an Acknowledgement by supplying the ETCS DMI function with a string of text to be shown to the driver and a request for acknowledgement.		False	False	False	Unknown		Definition
10.6.3.4	10.6.3.4 The STM shall be able to request a background colour for text messages and the display colour of the text message (font) itself.	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.6.3.5	10.6.3.5 The ETCS DMI function shall report to the STM the acknowledgement of messages (which were required to be acknowledged) from the driver.	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.6.3.6	10.6.3.6 At any time, only one message to be acknowledged shall be displayed to the driver by the ETCS DMI function.	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.6.3.6.1	10.6.3.6.1 Justification: This is for ergonomic reason.		False	False	False	Unknown		
10.6.3.7	10.6.3.7 If more than one message are pending for acknowledgement, the ETCS On-board shall store those messages to be acknowledged and display them in the order they have been received. (FIFO)	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.6.3.8	10.6.3.8 All text messages from STMs shall be deleted only by the STM which requested the text message. The only exception from this requirement is when the STM is no more active (see 10.5.2.2).	ETCS	True	True	False	STM->ETCS STM->STM DA	6.3.0.0.0.0.0.0	
10.6.3.8.1	10.6.3.8.1 Note: In case of a message that has to be acknowledged, this is to indicate to the		False	False	False	Unknown		

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	driver that the STM has properly taken into account the acknowledgement.							
10.6.3.9	10.6.3.9 The interoperable character code shall be Latin Alphabet #1, also known as ISO 8859-1 and Codepage 850.	ETCS STM National STM European	True	True	False	DA	6.3.0.0.0.0.0.0	
10.6.3.9.1	10.6.3.9.1 Justification: This supports all Western European countries, parts of Eastern Europe and is widely used in PC's and workstations.		False	False	False	Unknown		
10.6.4	10.6.4 Indicators		False	False	False	Unknown		
10.6.4.1	10.6.4.1 Indicators shall correspond to lamps or small displays of short text and/or short numbers.		False	False	False	Unknown		Definition
10.6.4.2	10.6.4.2 ETCS DMI indicator shall be able to present icons or caption text to the driver within the same screen area.	ETCS	True	True	False	DA	6.9.0	
10.6.4.3	10.6.4.3 Indicators are not safe by themselves.		False	False	False	Unknown		Definition
10.6.4.4	10.6.4.4 A maximum of 24 indicators shall be visible at the same time.	ETCS	True	False	False	DA		Only applicable to customised DMI.
10.6.4.5	10.6.4.5 Exception: For the Unified DMI, a maximum of 10 indicators shall be visible at the same time.	ETCS	True	True	False	DA	6.9.0	
10.6.4.6	10.6.4.6 STM shall request an indicator by means of the following definition:	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 6.9.0	
10.6.4.6.0-1	an object identity code made of STM Identifier and Object Identifier,	ETCS	True	True	False	DA	6.9.0	
10.6.4.6.0-2	a unique graphic identity made of STM Identifier and Icon Identifier,	ETCS	True	True	False	DA	6.9.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.6.4.6.0-3	a caption text.	ETCS	True	True	False	DA	6.9.0	
10.6.4.7	10.6.4.7 The caption text shall be visible only when	ETCS	True	True	False	DA	6.9.0	
10.6.4.7.0-1	the graphic identity code is not known in the DMI Function or	ETCS	True	True	False	DA	6.9.0	
10.6.4.7.0-2	a special value for the graphic identity code telling that no icon is requested by the STM is transmitted.	ETCS	True	True	False	DA	6.9.0	
10.6.4.8	10.6.4.8 If the caption text is visible, the STM shall be able to request a background colour for the whole indicator and the display colour of the caption text (font).	ETCS	True	True	False	DA	6.9.0	
10.6.4.9	10.6.4.9 The STM shall be able to request a flashing of the whole indicator (no flashing, slow / fast / counterphase flashing).	ETCS	True	True	False	DA	6.9.0	
10.6.4.9.0-1			False	False	False	Unknown		Figures are not requirements.
10.6.4.9.0-2	Figure 14: Counterphase flashing		False	False	False	Unknown		Figures are not requirements.
10.6.4.10	10.6.4.10 The caption text can be up to two lines of 6 characters each.	ETCS	True	True	False	DA	6.9.0	
10.6.4.10.1	10.6.4.10.1 Note: The caption text associated to an object identity can be updated at any time by the active STM. This way, the Indicator can serve as a small alphanumeric display.		False	False	False	Unknown		
10.6.4.11	10.6.4.11 The caption text, the background colour and the caption text colour shall be used as default definition for indicators.	ETCS	True	True	False	DA	6.9.0	
10.6.5	10.6.5 Buttons		False	False	False	Unknown		
10.6.5.1	10.6.5.1 Buttons are a pure functional extension of Indicators.		False	False	False	Unknown		Definition
10.6.5.2	10.6.5.2 ETCS DMI buttons shall be able to present icons and/or caption text to the driver within the same screen area.	ETCS	True	True	False	DA	6.9.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.6.5.3	10.6.5.3 The extension is transmission of button events from ETCS DMI to STM. The ETCS DMI function shall make a distinction between push event (button activated by the driver) and release event (button activation is ended by the driver).	ETCS	True	False	False	DA		Definition Covered by other requirements.
10.6.5.4	10.6.5.4 ETCS DMI shall report button push and release events to the STM. ETCS DMI function shall timestamp those event reports to reflect the sequence of events.	ETCS	True	True	False	DA	6.9.0	
10.6.5.4.1	10.6.5.4.1 Note: The same button may be reported more than once in the same message, if DMI has registered more than one event during the cycle.		False	False	False	Unknown		
10.6.5.5	10.6.5.5 The ETCS DMI function shall use the Reference Time (see chapter 5.2.2) for timestamping the button events reports.	ETCS	True	True	False	DA	6.9.0	
10.6.5.6	10.6.5.6 A maximum of 10 buttons shall be visible at the same time.	ETCS	True	False	False	DA		Only applicable to customised DMI.
10.6.5.7	10.6.5.7 Exception: For the Unified DMI, a maximum of 5 buttons shall be visible at the same time.	ETCS	True	True	False	DA		Check test case 6.9.0
10.6.5.7.1	10.6.5.7.1 Note: Buttons that are controlled by the ETCS only are excluded from those numbers.		False	False	False	Unknown		
10.6.5.8	10.6.5.8 STM shall request a button by means of the following definition:	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 6.9.0	
10.6.5.8.0-1	an object identity code made of STM Identifier and Object Identifier,	ETCS	True	True	False	DA	6.9.0	
10.6.5.8.0-2	a unique graphic identity made of STM Identifier and Icon Identifier,	ETCS	True	True	False	DA	6.9.0	
10.6.5.8.0-3	a caption text.	ETCS	True	True	False	DA	6.9.0	
10.6.5.9	10.6.5.9 The caption text shall be visible only	ETCS	True	True	False	DA	6.9.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	when							
10.6.5.9.0-1	the graphic identity code is not known in the DMI Function or	ETCS	True	True	False	DA	6.9.0	
10.6.5.9.0-2	a special value for the graphic identity code telling that "no icon is requested by the STM" is transmitted.	ETCS	True	True	False	DA	6.9.0	
10.6.5.10	10.6.5.10 If the caption text is visible, the STM shall be able to request a background colour for the whole button and the display colour of the caption text (font).	ETCS	True	True	False	DA	6.9.0	
10.6.5.11	10.6.5.11 The STM shall be able to request a flashing of the whole button (no flashing, slow / fast / counterphase flashing).	ETCS	True	True	False	DA	6.9.0	
10.6.5.12	10.6.5.12 The button can have a caption text of up to two lines of 6 characters each.	ETCS	True	True	False	DA	6.9.0	
10.6.5.13	10.6.5.13 A changing state (icon, colour) of a button shall only come from the STM.		True	False	False	Unknown		Covered by other requirements.
10.6.5.14	10.6.5.14 If a local feedback from the DMI is implemented, it shall give to the driver the information that the button is pressed.	ETCS	True	False	False	DA		ETCS internal
10.6.5.14.1	10.6.5.14.1 Note: Local feedback is when the DMI makes a direct response to the driver when a button is pressed.		False	False	False	Unknown		
10.6.5.15	10.6.5.15 The DMI itself shall not change the state of the button (icon, colour).	ETCS	True	False	False	DA		ETCS internal
10.6.5.15.1	10.6.5.15.1 Exception: Customisation may override this requirement.	ETCS	False	False	False	DA		Only applicable to customised DMI.
10.6.5.15.2	10.6.5.15.2 Justification: This indicates the processing in the STM.		False	False	False	Unknown		
10.6.5.15.3	10.6.5.15.3 Note: The normal procedure for every button is that the STM provides all responses (feedback), but it may have a too slow response from an ergonomical aspect.		False	False	False	Unknown		
10.6.5.15.4	10.6.5.15.4 Note: When using the DMI, the driver has to check that the DMI behaves as expected.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.6.5.16	10.6.5.16 The caption text, the background colour and the caption text colour shall be used as default definition for buttons.	ETCS	True	True	False	DA	6.9.0	
10.6.6	10.6.6 Sounds		False	False	False	Unknown		
10.6.6.1	10.6.6.1 STM shall request a sound by means of the following definition:	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 6.9.0	
10.6.6.1.0-1	an object identity code made of STM Identifier and Object Identifier,	ETCS	True	True	False	DA	6.9.0	
10.6.6.1.0-2	a sequence of segments defined by a duration and an associated frequency,	ETCS	True	True	False	DA	6.9.0	
10.6.6.1.0-2.0-1			False	False	False	Unknown		Figures are not requirements.
10.6.6.1.0-3	Figure 15: Example of sound definition		False	False	False	Unknown		
10.6.6.1.0-4	an indication if the sound has to be repeated continuously or not or to be stopped.	ETCS	True	True	False	DA	6.9.0	
10.6.6.2	10.6.6.2 The sequence of segments shall be used as default definition for sounds.	ETCS	True	True	False	DA	6.9.0	
10.6.6.3	10.6.6.3 The ETCS DMI function shall be able to manage two STM requests for sounds at the same time.	ETCS	True	True	False	DA	6.9.0	
10.6.6.3.1	10.6.6.3.1 Note: This will allow an STM to request a long sound and a short sound simultaneously.		False	False	False	Unknown		
10.6.7	10.6.7 Supervision information		False	False	False	Unknown		
10.6.7.1	10.6.7.1 There shall be two types of supervision information:		False	False	False	Unknown		Definition
10.6.7.1.0-1	ETCS supervision information		False	False	False	Unknown		Definition
10.6.7.1.0-2	STM-customized supervision information		False	False	False	Unknown		Definition

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.6.7.2	10.6.7.2 ETCS supervision information consists of :		False	False	False	Unknown		Definition
10.6.7.2.0-1	Permitted Speed		False	False	False	Unknown		Definition
10.6.7.2.0-2	Target Speed		False	False	False	Unknown		Definition
10.6.7.2.0-3	Target distance		False	False	False	Unknown		Definition
10.6.7.2.0-4	Release speed		False	False	False	Unknown		Definition
10.6.7.2.0-5	Intervention speed		False	False	False	Unknown		Definition
10.6.7.2.0-6	Intervention speed is the speed at which the intervention occurs.		False	False	False	Unknown		Definition
10.6.7.2.0-7	Warning status (Refer to "warning limit" within /4/ SRS Version 2.2.2; SUBSET-026.3; Principles)		False	False	False	Unknown		Definition
10.6.7.2.0-8	Indication status (Refer to "indication limit" within /4/ SRS Version 2.2.2; SUBSET-026.3; Principles)		False	False	False	Unknown		Definition
10.6.7.3	10.6.7.3 The STM shall always send the ETCS supervision information, which shall be used as a default definition of the supervision information to be displayed by the ETCS On-board.	ETCS STM National STM European	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0, 6.11.0.0.0	
10.6.8	10.6.8 DMI Object inhibition		False	False	False	Unknown		
10.6.8.1	10.6.8.1 The STM shall be able to select a restricted number of objects to be enabled or inhibited (see 10.7.2.5 and 10.7.3.5).	ETCS	True	False	False	DA		Covered by other requirements.
10.6.8.1.1	10.6.8.1.1 An inhibited DMI Object shall not be shown at the DMI whatever is the source of the data.	ETCS	True	True	False	DA	6.11.0.0.0	
10.6.8.1.2	10.6.8.1.2 Justification: National rules may demand some data not to be shown to the		False	False	False	Unknown		

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	driver. The driver may be required to drive according to tables and optical signals independently of protection from national on-board system.							
10.7	10.7 DMI and ETCS On-board mode		False	False	False	Unknown		
10.7.1	10.7.1		False	False	False	Unknown		
10.7.1.1	10.7.1.1 While the ETCS On-board is in the Sleeping (SL) technical mode, the STM shall have no access to the DMI function.	ETCS	True	False	False	DA		
10.7.1.2	10.7.1.2 For the European mode, the ETCS DMI shall display the supervision data based on the STM Profile.	ETCS	True	False	False	DA		European STM will not be tested.
10.7.1.3	10.7.1.3 For the National mode, the ETCS DMI shall display the supervision data received from the STM.	ETCS	True	True	False	DA	6.11.0.0.0	
10.7.2	10.7.2 Driver input to the On-board system		False	False	False	Unknown		
10.7.2.1	10.7.2.1 The following table gives all the driver inputs available depending on ETCS mode STM National (SN) or STM European (SE).		False	False	False	Unknown		Definition
10.7.2.2	10.7.2.2 This information is coming from the /5/ SRS Version 2.2.2; SUBSET-026.4; Modes and Transitions. It is repeated here for information and to ease the understanding. It has been completed for STM objects.		False	False	False	Unknown		Definition
10.7.2.2.1	10.7.2.2.1 X = active: For a DMI input, this means that the driver has the possibility to enter this information when the ERTMS/ETCS On-board equipment is in the mode indicated in the column.		False	False	False	Unknown		Definition
10.7.2.2.2	10.7.2.2.2 A = available: This means that the input becomes active ONLY if another condition(s) is (are) fulfilled. This condition(s) are not described here.		False	False	False	Unknown		Definition
10.7.2.3	10.7.2.3 The information "active" or "available"		False	False	False	Unknown		Definition

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	doesn't means that the STM has direct access to those information.							
10.7.2.4	10.7.2.4 Two type of access to the information shall be considered:		False	True	False	Unknown		
10.7.2.4.0-1	The control of the information itself (see chapter 10.3.1.6). Information can be controlled by the ETCS On-board or by the STM.		False	True	False	Unknown		
10.7.2.4.0-2	The inhibition of the information (see chapter 10.6.8). Information can be inhibited or not by the STM.		False	True	False	Unknown		
10.7.2.5	10.7.2.5		False	False	False	Unknown		Table Paragraph
10.7.2.5.0-1.0-1.0-1	Input information		True	False	False	Unknown		
10.7.2.5.0-1.0-1.0-2	STM European mode		True	False	False	Unknown		
10.7.2.5.0-1.0-1.0-3	STM National mode		True	False	False	Unknown		
10.7.2.5.0-1.0-2.0-1	10.7.2.5.0-1.0-2.0-1		False	False	False	Unknown		
10.7.2.5.0-1.0-2.0-2	X/A		True	False	False	Unknown		
10.7.2.5.0-1.0-2.0-3	Control		True	False	False	Unknown		
10.7.2.5.0-1.0-2.0-4	Inhibition by STM		True	False	False	Unknown		
10.7.2.5.0-1.0-2.0-5	X/A		True	False	False	Unknown		
10.7.2.5.0-1.0-2.0-6	Control		True	False	False	Unknown		
10.7.2.5.0-1.0-2.0-7	Inhibition by STM		True	False	False	Unknown		
10.7.2.5.0-1.0-3.0-1	Data entry request		False	False	False	Unknown		
10.7.2.5.0-1.0-3.0-2	X		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.7.2.5.0-1.0-3.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-3.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-3.0-5	X		False	False	False	Unknown		
10.7.2.5.0-1.0-3.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-3.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-4.0-1	Train Data - Max train speed - Train length - train category - Deceleration capacity - Time to cut off traction - Brake delay time - loading gauge - axle load - power supply train running number		False	False	False	Unknown		
10.7.2.5.0-1.0-4.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-4.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-4.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-4.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-4.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-4.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-5.0-1	Selection of language		False	False	False	Unknown		
10.7.2.5.0-	A		False	False	False	Unknown		

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1.0-5.0-2								
10.7.2.5.0-1.0-5.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-5.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-5.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-5.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-5.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-6.0-1	Which STM to be activated		False	False	False	Unknown		
10.7.2.5.0-1.0-6.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-6.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-6.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-6.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-6.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-6.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-7.0-1	Specific STM Data Entry		False	False	False	Unknown		
10.7.2.5.0-1.0-7.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-7.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-7.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-7.0-5	A		False	False	False	Unknown		

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10.7.2.5.0-1.0-7.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-7.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-8.0-1	Train data confirmation		False	False	False	Unknown		
10.7.2.5.0-1.0-8.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-8.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-8.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-8.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-8.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-8.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-9.0-1	Additional data - Driver id - ERTMS/ETCS level Track Adhesion factor		False	False	False	Unknown		
10.7.2.5.0-1.0-9.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-9.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-9.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-9.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-9.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-9.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-	Additional data re-validation - Driver id		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-10.0-1	ERTMS/ETCS level							
10.7.2.5.0-1.0-10.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-10.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-10.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-10.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-10.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-10.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-11.0-1	Start		False	False	False	Unknown		
10.7.2.5.0-1.0-11.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-11.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-11.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-11.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-11.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-11.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-12.0-1	ETCS Override request		False	False	False	Unknown		
10.7.2.5.0-1.0-12.0-2	X		False	False	False	Unknown		
10.7.2.5.0-1.0-12.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-12.0-4	YES		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.7.2.5.0-1.0-12.0-5	X	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.7.2.5.0-1.0-12.0-6	ETCS	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.7.2.5.0-1.0-12.0-7	YES	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.7.2.5.0-1.0-13.0-1	Ack of fixed text information		False	False	False	Unknown		
10.7.2.5.0-1.0-13.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-13.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-13.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-13.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-13.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-13.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-14.0-1	Ack of plain text information		False	False	False	Unknown		
10.7.2.5.0-1.0-14.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-14.0-3	ETCS + STM		False	False	False	Unknown		
10.7.2.5.0-1.0-14.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-14.0-5	A	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.7.2.5.0-1.0-14.0-6	ETCS + STM	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.7.2.5.0-	NO	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-14.0-7								
10.7.2.5.0-1.0-15.0-1	Ack of level transition		False	False	False	Unknown		
10.7.2.5.0-1.0-15.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-15.0-3	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-15.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-15.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-15.0-6	ETCS		False	False	False	Unknown		
10.7.2.5.0-1.0-15.0-7	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-16.0-1	STM buttons		False	False	False	Unknown		
10.7.2.5.0-1.0-16.0-2	A		False	False	False	Unknown		
10.7.2.5.0-1.0-16.0-3	STM		False	False	False	Unknown		
10.7.2.5.0-1.0-16.0-4	NO		False	False	False	Unknown		
10.7.2.5.0-1.0-16.0-5	A		False	False	False	Unknown		
10.7.2.5.0-1.0-16.0-6	STM		False	False	False	Unknown		
10.7.2.5.0-1.0-16.0-7	NO		False	False	False	Unknown		
10.7.2.6	10.7.2.6 To resume: The STM shall only have the control of the STM buttons and acknowledgements of plain text messages regarding the driver input to the On-board.		True	False	False	Unknown		Repetition of other requirements.
10.7.3	10.7.3 On-board outputs to the Driver		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.7.3.1	10.7.3.1 The following table gives all the On-board outputs to the Driver available depending on ETCS mode STM National (SN) or STM European (SE).		False	False	False	Unknown		Definition
10.7.3.2	10.7.3.2 This information is coming from the /5/ SRS Version 2.2.2; SUBSET-026.4; Modes and Transitions. It is repeated here for information and to ease the understanding. It has been completed for STM objects.		False	False	False	Unknown		Definition
10.7.3.2.1	10.7.3.2.1 X = active: For a DMI output, this means that the output information is shown to the driver when the ERTMS/ETCS On-board equipment is in the mode indicated in the column.		False	False	False	Unknown		Definition
10.7.3.2.2	10.7.3.2.2 A = available: This means that the output becomes active ONLY if another condition(s) is (are) fulfilled. This condition(s) are not described here.		False	False	False	Unknown		Definition
10.7.3.3	10.7.3.3 The information "active" or "available" doesn't mean that the STM has direct access to those information.		False	False	False	Unknown		Definition
10.7.3.4	10.7.3.4 Two type of access to the information shall be considered:	ETCS	False	False	False	DA		
10.7.3.4.0-1	The control of the information itself (see chapter 10.3.1.6). Information can be controlled by the ETCS On-board or by the STM.	ETCS	False	False	False	DA		
10.7.3.4.0-2	The inhibition of the information (see chapter 10.6.8). Information can be inhibited or not by the STM.	ETCS	True	True	False	DA	6.9.0	
10.7.3.5	10.7.3.5		False	False	False	Unknown		Table Paragraph
10.7.3.5.0-1.0-1.0-1	Output information		True	False	False	Unknown		
10.7.3.5.0-1.0-1.0-2	STM European mode		True	False	False	Unknown		
10.7.3.5.0-1.0-1.0-3	STM National mode		True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.7.3.5.0-1.0-2.0-1	10.7.3.5.0-1.0-2.0-1		False	False	False	Unknown		
10.7.3.5.0-1.0-2.0-2	X/A		True	False	False	Unknown		
10.7.3.5.0-1.0-2.0-3	Control		True	False	False	Unknown		
10.7.3.5.0-1.0-2.0-4	Inhibition by STM		True	False	False	Unknown		
10.7.3.5.0-1.0-2.0-5	X/A		True	False	False	Unknown		
10.7.3.5.0-1.0-2.0-6	Control		True	False	False	Unknown		
10.7.3.5.0-1.0-2.0-7	Inhibition by STM		True	False	False	Unknown		
10.7.3.5.0-1.0-3.0-1	ERTMS/ETCS Mode		False	False	False	Unknown		
10.7.3.5.0-1.0-3.0-2	X		False	False	False	Unknown		
10.7.3.5.0-1.0-3.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-3.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-3.0-5	X		False	False	False	Unknown		
10.7.3.5.0-1.0-3.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-3.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-4.0-1	Current ERTMS/ETCS level		False	False	False	Unknown		
10.7.3.5.0-1.0-4.0-2	X		False	False	False	Unknown		
10.7.3.5.0-1.0-4.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-	NO		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-4.0-4								
10.7.3.5.0-1.0-4.0-5	X		False	False	False	Unknown		
10.7.3.5.0-1.0-4.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-4.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-5.0-1	ETCS Train Speed		False	False	False	Unknown		
10.7.3.5.0-1.0-5.0-2	X		False	False	False	Unknown		
10.7.3.5.0-1.0-5.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-5.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-5.0-5	X		False	False	False	Unknown		
10.7.3.5.0-1.0-5.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-5.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-6.0-1	STM Permitted Speed		False	False	False	Unknown		
10.7.3.5.0-1.0-6.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-6.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-6.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-6.0-5	A	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-6.0-6	STM	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0,	

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Paragraph number	FFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-6.0-7	YES	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-7.0-1	STM Target Speed		False	False	False	Unknown		
10.7.3.5.0-1.0-7.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-7.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-7.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-7.0-5	A	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-7.0-6	STM	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-7.0-7	YES	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-8.0-1	STM Target distance		False	False	False	Unknown		
10.7.3.5.0-1.0-8.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-8.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-8.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-8.0-5	A	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-8.0-6	STM	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-8.0-7	YES	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-9.0-1	STM Release speed		False	False	False	Unknown		
10.7.3.5.0-1.0-9.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-9.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-9.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-9.0-5	A	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-9.0-6	STM	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-9.0-7	YES	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-10.0-1	STM Intervention speed This is not part of the SRS Subset-026 V2.2.2 and is given here to be complete.		False	False	False	Unknown		
10.7.3.5.0-1.0-10.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-10.0-3	ETCS		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.7.3.5.0-1.0-10.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-10.0-5	A	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-10.0-6	STM	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-10.0-7	YES	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-11.0-1	STM Warning status / Indication status This is not part of the SRS Subset-026 V2.2.2 and is given here to be complete		False	False	False	Unknown		
10.7.3.5.0-1.0-11.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-11.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-11.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-11.0-5	A	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-11.0-6	STM	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-11.0-7	YES	ETCS	True	True	False	DA	4a.0.0.0.0.1.0, 4a.0.0.0.0.2.0, 4b.0.0.0.0.1.0, 4b.0.0.0.0.2.0	
10.7.3.5.0-1.0-12.0-1	Train Data - Max train speed		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	<ul style="list-style-type: none"> - Train length - train category - deceleration capacity - time to cut off traction - brake delay time - loading gauge - axle load - power supply train running number 							
10.7.3.5.0-1.0-12.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-12.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-12.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-12.0-5	A		False	False	False	Unknown		
10.7.3.5.0-1.0-12.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-12.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-13.0-1	Additional data <ul style="list-style-type: none"> - Driver id - ERTMS/ETCS level Track Adhesion factor		False	False	False	Unknown		
10.7.3.5.0-1.0-13.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-13.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-13.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-13.0-5	A		False	False	False	Unknown		
10.7.3.5.0-1.0-13.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-	NO		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-13.0-7								
10.7.3.5.0-1.0-14.0-1	Specific STM Data Entry		False	False	False	Unknown		
10.7.3.5.0-1.0-14.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-14.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-14.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-14.0-5	A		False	False	False	Unknown		
10.7.3.5.0-1.0-14.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-14.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-15.0-1	Service brake intervention		False	False	False	Unknown		
10.7.3.5.0-1.0-15.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-15.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-15.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-15.0-5	A		False	False	False	Unknown		
10.7.3.5.0-1.0-15.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-15.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-16.0-1	Emergency brake intervention		False	False	False	Unknown		
10.7.3.5.0-1.0-16.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-16.0-3	ETCS		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.7.3.5.0-1.0-16.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-16.0-5	A		False	False	False	Unknown		
10.7.3.5.0-1.0-16.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-16.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-17.0-1	Fixed text information		False	False	False	Unknown		
10.7.3.5.0-1.0-17.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-17.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-17.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-17.0-5	A		False	False	False	Unknown		
10.7.3.5.0-1.0-17.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-17.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-18.0-1	Plain text information		False	False	False	Unknown		
10.7.3.5.0-1.0-18.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-18.0-3	ETCS + STM		False	False	False	Unknown		
10.7.3.5.0-1.0-18.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-18.0-5	A	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.7.3.5.0-1.0-18.0-6	ETCS +	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	STM							
10.7.3.5.0-1.0-18.0-7	NO	ETCS	True	True	False	DA	6.3.0.0.0.0.0.0	
10.7.3.5.0-1.0-19.0-1	Track data & track condition Balise transmission control		False	False	False	Unknown		
10.7.3.5.0-1.0-19.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-19.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-19.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-19.0-5	A	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-19.0-6	ETCS	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-19.0-7	YES	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-20.0-1	Override Status		False	False	False	Unknown		
10.7.3.5.0-1.0-20.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-20.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-20.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-20.0-5	A	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-20.0-6	ETCS	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-20.0-7	YES	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-21.0-1	Level transition announcement		False	False	False	Unknown		
10.7.3.5.0-1.0-21.0-2	A		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.7.3.5.0-1.0-21.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-21.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-21.0-5	A		False	False	False	Unknown		
10.7.3.5.0-1.0-21.0-6	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-21.0-7	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-22.0-1	Slippery track selected indication		False	False	False	Unknown		
10.7.3.5.0-1.0-22.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-22.0-3	ETCS		False	False	False	Unknown		
10.7.3.5.0-1.0-22.0-4	YES		False	False	False	Unknown		
10.7.3.5.0-1.0-22.0-5	A	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-22.0-6	ETCS	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-22.0-7	YES	ETCS	True	True	False	DA	6.15.0.0.0	
10.7.3.5.0-1.0-23.0-1	STM Sounds		False	False	False	Unknown		
10.7.3.5.0-1.0-23.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-23.0-3	STM		False	False	False	Unknown		
10.7.3.5.0-1.0-23.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-23.0-5	A	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2	
10.7.3.5.0-	STM	ETCS	True	True	False	DA	6.1.1.1.0.0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-23.0-6							6.1.1.2	
10.7.3.5.0-1.0-23.0-7	NO	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2	
10.7.3.5.0-1.0-24.0-1	STM buttons		False	False	False	Unknown		
10.7.3.5.0-1.0-24.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-24.0-3	STM		False	False	False	Unknown		
10.7.3.5.0-1.0-24.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-24.0-5	A	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2	
10.7.3.5.0-1.0-24.0-6	STM	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2	
10.7.3.5.0-1.0-24.0-7	NO	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2	
10.7.3.5.0-1.0-25.0-1	STM indicators		False	False	False	Unknown		
10.7.3.5.0-1.0-25.0-2	A		False	False	False	Unknown		
10.7.3.5.0-1.0-25.0-3	STM		False	False	False	Unknown		
10.7.3.5.0-1.0-25.0-4	NO		False	False	False	Unknown		
10.7.3.5.0-1.0-25.0-5	A	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2	
10.7.3.5.0-1.0-25.0-6	STM	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2	
10.7.3.5.0-1.0-25.0-7	NO	ETCS	True	True	False	DA	6.1.1.1.0.0, 6.1.1.2	
11	11 JRU STM communication		False	False	False	Unknown		
11.1	11.1 Recording concept		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.1.1	11.1.1		False	False	False	Unknown		
11.1.1.1	11.1.1.1 The JRU receives data from the STM for logging purpose. The main aim of recording this information is to determine the responsibility between the different ERTMS/ETCS on-board devices, trackside data, driver actions and STM. Therefore all information having an impact on the safety of train movement shall be recorded.		False	False	False	Unknown		Definition
11.1.1.2	11.1.1.2 This chapter deals only with the added information provided by the STM(s).		False	False	False	Unknown		Definition
11.1.1.3	11.1.1.3 In order to determine the responsibilities it is necessary to record the order of events and be able to reconcile this order with real time.		False	False	False	Unknown		Definition
11.2	11.2 General requirements		False	False	False	Unknown		
11.2.1	11.2.1		False	False	False	Unknown		
11.2.1.1	11.2.1.1 The ETCS JRU shall be able to receive and store data from an STM.	ETCS	True	True	False	JRU		The requirements on ETCS are tested more precise in 5.2.10.1 and not tested here.
11.2.1.2	11.2.1.2 The STM shall be able to send all relevant national juridical data to the ETCS JRU.	STM National STM European	True	False	False	JRU		STM internal
11.2.1.3	11.2.1.3 The definition of the relevant national juridical data is a national concern, so it is out of the scope of this specification.		False	False	False	Unknown		STM internal
11.2.1.4	11.2.1.4 The STM shall use the Reference Time (see chapter 5.2.2) for time stamping the data sent to the ETCS JRU.	STM National STM European	True	False	False	JRU		STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.2.1.5	11.2.1.5 The time stamp of the data sent to the ETCS JRU shall represent the time the sent data was valid.	STM National STM European	True	False	False	JRU		STM internal
11.2.1.5.1	11.2.1.5.1 Justification: This is in order to define the event chronology.		False	False	False	Unknown		
11.2.1.6	11.2.1.6 The ETCS JRU shall perform the correlation between the UTC and the Reference Time (see chapter 5.2.2).	ETCS	True	False	False	JRU		ETCS internal
12	12 Diagnostic Recorder (DRU)		False	False	False	Unknown		
12.1	12.1		False	False	False	Unknown		
12.1.1	12.1.1		False	False	False	Unknown		
12.1.1.1	12.1.1.1 The Diagnostic message has the purpose of supporting operator and maintenance staff to quickly find and isolate sources of faults.		False	False	False	Unknown		Definition
12.1.1.2	12.1.1.2 It is not mandatory to the ETCS on-board to implement the Diagnostic Recorder function.		False	False	False	Unknown		
12.1.1.3	12.1.1.3 If the Diagnostic recorder is not available in the ETCS on-board, the ETCS on board shall always send a default unused address to the STM.	ETCS	True	True	False	ASU	2.0.0.0.4.0.2.0.2.0.0.0.1.0.0.2 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3. 0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3. 0.1.0.1.0 2.0.0.0.10.0.2.0.2.0.0.0.1.0.0.1.3 .0.1.0.2	Check about the DRU address.
12.1.1.3.1	12.1.1.3.1 Justification: This allows connection of a diagnostics recorder when needed without modifying the ETCS on-board configuration.		False	False	False	Unknown		
12.1.1.4	12.1.1.4 If the Diagnostic Recorder is not	STM	True	False	False	DRU		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	available in the ETCS on-board (no connection can be established) the STM shall not send diagnostic data.	National STM European						
12.1.2	12.1.2 Unambiguous message		False	False	False	Unknown		
12.1.2.1	12.1.2.1 The diagnostic messages shall be made unique by including the following information:		True	False	False	DRU		This requirement is fulfilled by the specification of subset-058: NID_STM is included in the header of every telegram (see packet 77)
12.1.2.1.0-1	Provider of the STM,	STM National STM European	True	True	False	DRU		This requirement is fulfilled by the specification of subset-058: NID_STM is included in the header of every telegram (see packet 77)
12.1.2.1.0-2	STM identifier,	STM National STM European	True	True	False	DRU		This requirement is fulfilled by the specification of subset-058: NID_STM is included in the header of every telegram (see packet 77)
12.1.2.1.0-3	Diagnostic message.	STM National STM European	True	True	False	DRU		This requirement is fulfilled by the specification of subset-058: NID_STM is included in the header of every telegram (see packet 77)
12.1.2.1.1	12.1.2.1.1 Note: Diagnostic messages may contain the timestamp information (Reference Time).		False	False	False	Unknown		
12.1.2.2	12.1.2.2 For a combination of the Provider of		False	False	False	Unknown		Assumption

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	the STM and STM identifier, there is a product specific list of diagnostic messages. The owner of the product or system maintains this list.							
13	13 Procedures		False	False	False	Unknown		
13.1	13.1 Specific STM Data Entry/Data View		False	False	False	Unknown		
13.1.1	13.1.1 Specific STM Data Entry		False	False	False	Unknown		
13.1.1.1	13.1.1.1 General requirements and Definitions		False	False	False	Unknown		
13.1.1.1.1	13.1.1.1.1 The STM shall use the transmitted ETCS data: ETCS Train Data, ETCS Additional Data and ETCS National Values as far as possible.	STM National STM European	True	False	False	DE		STM internal
13.1.1.1.2	13.1.1.1.2 If it is not possible to transform the ETCS Data into national format, the STM is allowed to request (nationally) specific STM data from ETCS On-board. Those specific data shall be called "Specific STM Data". "Specific STM data" are the national data that are not ETCS data or that cannot be translated from ETCS data.	STM National STM European	True	False	False	DE		STM internal
13.1.1.1.2.1	13.1.1.1.2.1 Note: The entry of Specific STM Data should be avoided. Where possible, automatic translation shall be implemented on the STM side.		False	False	False	Unknown		
13.1.1.1.3	13.1.1.1.3 For each NID_STM it is possible to define up to 255 Specific STM Data. This is referred to as the palette of Specific STM Data.		False	False	False	Unknown		Definition
13.1.1.1.4	13.1.1.1.4 Each Specific STM Data variable shall be uniquely identified by NID_STM + Data Identifier.		False	False	False	Unknown		Definition
13.1.1.1.5	13.1.1.1.5 An STM may refer to other palettes than its own.	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
							.1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.1.6	13.1.1.1.6 The process to deliver those "Specific STM Data" to the STM is called "Specific STM Data Entry".		False	False	False	Unknown		Definition
13.1.1.1.6.1	13.1.1.1.6.1 Note: The Specific STM Data are called "Additional STM Data" within /1/ SUBSET-026; SRS Version 2.2.2.		False	False	False	Unknown		
13.1.1.1.7	13.1.1.1.7 The ETCS On-board shall be responsible for the data consistency between the external source of Specific STM Data and the Specific STM Data transmitted to the STM.	ETCS	True	False	False	DE		ETCS internal
13.1.1.1.8	13.1.1.1.8 Specific STM data entry shall be possible at start-up and later on during mission in order to modify or review the Specific STM Data.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.1.9	13.1.1.1.9 The Specific STM Data Entry process may require or not the driver to enter the data manually. This manual entry is called the "Driver Interaction".		False	False	False	Unknown		Definition
13.1.1.1.9.1	13.1.1.1.9.1 Note: Driver Interaction is mandatory for the test procedure, as it has to be processed in real time.		False	False	False	Unknown		
13.1.1.1.10	13.1.1.1.10 At PO state of the STM, the "Specific STM Data Need" shall indicate	STM National	True	True	False	ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	whether the STM needs Specific STM Data or not. See 7.3.1.2.5.	STM European					2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
13.1.1.1.11	13.1.1.1.11 The "Specific STM Data Need" shall include if there is a manual entry process requested or not for at least one Specific STM Data of the STM. This need for manual entry is called the "Driver Interaction Need".	STM National STM European	True	True	False	ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
13.1.1.1.12	13.1.1.1.12 The STM request for Specific STM data entry shall include if there is a driver interaction requested or not and for each Specific STM Data, the following information: labelling, with optional default value, and optional pick-up list. This request shall be send by the STM to the ETCS STM Control Function. The request for driver interaction is called the "Driver Interaction Request".	STM National STM European	True	True	False	ASU	2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
13.1.1.1.13	13.1.1.1.13 The STM shall not be allowed to send an STM request for Specific STM data entry with a Driver Interaction Request without having sent a Driver Interaction Need within the latest Specific STM Data Need.	ETCS	True	True	True	DE		
13.1.1.1.14	13.1.1.1.14 The STM shall be allowed to send an STM request for Specific STM data entry without a Driver Interaction Request while having sent a Driver Interaction Need within the latest Specific STM Data Need.	ETCS	True	True	True	DE		
13.1.1.1.15	13.1.1.1.15 Depending on STM implementation, the STM request for Specific STM Data entry shall contain all the data needed by the STM or a subset of data needed by the STM or one data needed by the STM at a time.	ETCS	True	False	False	DE		STM internal To test if the ETCS is able to receive a request for more than one data. It is covered by other

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
								requirements
13.1.1.1.16	13.1.1.1.16 The number of data within one STM request for Specific STM Data entry shall be limited to 5 data.	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.1.17	13.1.1.1.17 When the STM receives the Specific STM Data, the STM shall be allowed to send another request for Specific STM Data.	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.1.18	13.1.1.1.18 An STM request for Specific STM Data shall be allowed to be the same or different from the previous one (i.e. request for another set of data).	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.1.19	13.1.1.1.19 When the STM receives the Specific STM Data, the STM shall check the data according to its national criteria (e.g. range check, cross checks). Depending on the check result of the STM :		True	False	False	DE		STM internal
13.1.1.1.19.0-1	the STM shall send an "END of Specific Data entry" to the ETCS STM Control Function if the		True	False	False	DE		STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	checks are OK and the STM has all the requested data.							
13.1.1.1.19.0-2	the STM shall request again Specific STM Data entry to the ETCS STM Control Function.		True	False	False	DE		STM internal
13.1.1.1.20	13.1.1.1.20 The Specific STM data transmitted by the ETCS STM Control Function to the STM shall be composed of text string only. Each element of a text string contains a single character encoded as ISO 8859-1, also known as Latin alphabet #1.	ETCS	True	False	False	DE		ETCS internal
13.1.1.1.21	13.1.1.1.21 Driver text entry functionality of the ETCS On-board shall support at least 0-9 and A-Z (capital letters only) characters.	ETCS	True	False	False	DE		ETCS internal
13.1.1.1.22	13.1.1.1.22 Specific STM Data Entry shall not require the driver to enter characters beyond 0-9 and A-Z. (capital letters only).	STM National STM European	True	False	False	DE		STM internal
13.1.1.1.23	13.1.1.1.23 The label and elements in the pick-up list shall be allowed to use the whole set of characters of ISO 8859-1.	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.2	13.1.1.2 Specific STM Data Entry Procedure		False	False	False	Unknown		
13.1.1.2.0-1			False	False	False	Unknown		Figures are not requirements.
13.1.1.2.0-2	Figure 16: Specific STM Data Entry procedure: Data exchange		False	False	False	Unknown		
13.1.1.2.1	13.1.1.2.1 When the STM needs Specific STM Data, it shall send an "Specific STM Data Need" to the ETCS On-board STM Control Function.	STM National STM	True	True	False	DE	10d.0.0.0	STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		European						
13.1.1.2.2	13.1.1.2.2 When receiving the "Specific STM data need" and	ETCS	True	True	False	DE	10d.0.0.0	
13.1.1.2.2.0-1	the ETCS STM Control function doesn't know the validated Specific STM data,	ETCS	True	True	False	DE	10d.0.0.0	
13.1.1.2.2.0-2	or the Specific STM Data Need includes a Driver Interaction Need,	ETCS	True	True	False	DE	10d.0.0.0	
13.1.1.2.2.0-3	then the ETCS STM Control Function shall inform the driver that at least one STM needs Specific STM Data.	ETCS	True	True	False	DE	10d.0.0.0	
13.1.1.2.3	13.1.1.2.3 The ETCS STM Control Function shall delete this information to the driver when the driver starts the ETCS train data entry procedure.	ETCS	True	True	False	DE	10d.0.0.0	
13.1.1.2.4	13.1.1.2.4 Once the STM has received the ETCS train data :	STM National STM European	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.2.0.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.2.4.0-1	If the STM requires specific STM data entry, the STM shall request Specific STM Data entry to the ETCS STM Control Function.	STM National STM European	True	True	False	DE	10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.2.4.0-2	If the STM doesn't require Specific STM Data entry, the STM shall send an "END of Specific Data entry" to the ETCS STM Control Function.	STM National STM European	True	True	False	DE	10B.0.2.0.0	
13.1.1.2.5	13.1.1.2.5 When the ETCS STM Control Function	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	receives the STM request for Specific STM data entry						.1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0	
13.1.1.2.5.0-1	with a driver interaction or	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2	
13.1.1.2.5.0-2	if the ETCS STM Control Function doesn't know the validated Specific STM data,	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2	
13.1.1.2.5.0-3	the ETCS STM Control Function shall perform the Specific STM data entry exchanges with the driver and send the Specific STM data to the STM.	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2	
13.1.1.2.6	13.1.1.2.6 The STM Control Function may send Specific STM data without Driver Interaction when:	ETCS	True	True	False	DE	10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.2.6.0-1	the ETCS STM Control Function knows the validated Specific STM Data and,	ETCS	True	True	False	DE	10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.2.6.0-2	the STM doesn't request for Driver Interaction.	ETCS	True	True	False	DE	10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.1.2.7	13.1.1.2.7 The ETCS On-board shall not end the ETCS train data entry/Specific STM Data entry procedure before having received the "END of Specific Data entry" from all connected STMs.	ETCS	True	True	False	DE	10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.1, 10A.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.2, 10A.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.1, 10B.0.1.0.1.0.1.0.1.0.2.0.1.0.3.0 .1.0.4.0, 10B.0.1.0.2.0.1.0.2.0.2.0.2.0.3.0 .2.0.4.0	
13.1.2	13.1.2 Specific STM Data View		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.1.2.1	13.1.2.1 This procedure shall allow the driver to view the Specific STM data values currently known by the STM.		True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT OVR		Definition
13.1.2.2	13.1.2.2 When the view procedure of ETCS train data is triggered, the ETCS On-board STM Control Function shall send a request to all connected STMs for their Specific STM Data values.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	10c.0.0	
13.1.2.3	13.1.2.3 Once the STM has received the ETCS request for Specific STM Data values:	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	10c.0.0	
13.1.2.3.0-1	If the STM requires Specific STM data entry, the STM shall send Specific STM Data Values (labels and corresponding values) to the ETCS STM Control Function. Those data shall be called " Specific STM Data View values".	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT	10c.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OVR		
13.1.2.3.0-2	If the STM doesn't require Specific STM data entry, the STM shall send a "NO Specific Data values" to the ETCS STM Control Function.	STM National STM European	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	10c.0.0	
13.1.2.4	13.1.2.4 The Specific STM Data View Values transmitted by the STM to the ETCS STM Control Function shall be composed of text string only. Each element of a text string contains a single character encoded as ISO 8859-1, also known as Latin alphabet #1.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	10c.0.0	
13.1.2.5	13.1.2.5 When the ETCS STM Control Function receives the Specific STM Data View Values, the ETCS STM Control Function shall present the Specific STM Data View Values to the driver.	ETCS	True	True	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA DE OT OVR	10c.0.0	
13.1.2.6	13.1.2.6 The ETCS On-board shall use the received Specific STM Data View Values only for displaying purpose during the data view procedure.		True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA		ETCS internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
						OT OVR		
13.1.2.7	13.1.2.7 The ETCS On-board shall not used the Specific STM Data Entry Values for displaying purpose during the data view procedure.		True	False	False	SOM ASU ETCS->STM STM->ETCS STM->STM DA OT OVR		ETCS internal
13.1.2.7.1	13.1.2.7.1 Justification: This is important for the safety integrity of the Specific STM Data Entry process and the safety proof for STM.		False	False	False	Unknown		
13.2	13.2 STM Specific Test Procedure		False	False	False	Unknown		
13.2.1	13.2.1 General		False	False	False	Unknown		
13.2.1.1	13.2.1.1		False	False	False	Unknown		
13.2.1.1.1	13.2.1.1.1 This chapter includes the procedure to perform the operational test of STMs.		False	False	False	Unknown		Definition
13.2.1.1.2	13.2.1.1.2 For all STMs that need to be tested (due to a required test of e. g. the national transmission channel and / or the direct brake access) and the test has to be manually activated by the driver, the ETCS On-board shall provide one standard test procedure as described within this chapter.		False	False	False	Unknown		Definition
13.2.1.1.2.1	13.2.1.1.2.1 Justification: For some tests of the STM neither the ETCS On-board nor the STM itself can decide, if the test is allowed within the current area, at the current time or not. It is up to the driver to activate the test of the STM.		False	False	False	Unknown		
13.2.1.1.3	13.2.1.1.3 The STM shall not require a test of functions provided by the ETCS On-board	STM National	True	False	True	OT		STM internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	through the FFFIS STM. These functions shall be in the responsibility of the ETCS On-board and are therefore out of scope for the STM test procedure.	STM European						
13.2.1.1.3.1	13.2.1.1.3.1 Note: This includes any TIU function defined within the FFFIS STM Train and Brake Interface.		False	False	False	Unknown		
13.2.1.1.4	13.2.1.1.4 If the STM is not able to perform its test due to STM internal rules for the execution of the tests, the STM shall be allowed to abort the test procedure.		True	False	False	OT		STM internal
13.2.1.1.4.1	13.2.1.1.4.1 Justification: An STM may not be allowed to perform all or some of its tests while the train is moving.		False	False	False	Unknown		
13.2.2	13.2.2 Test request from an STM to the driver		False	False	False	Unknown		
13.2.2.1	13.2.2.1		False	False	False	Unknown		
13.2.2.1.1	13.2.2.1.1 If an STM needs to be tested, it may send a test request to the STM Control Function. This test request shall contain a plain text message.	STM National STM European	True	True	False	OT	11a.0.0.0.0	Second part only
13.2.2.1.1.1	13.2.2.1.1.1 Justification: Some STMs need to be tested when a specified time since the last test has expired. This has to be indicated to the driver so that the driver can activate the test at the next opportunity.		False	False	False	Unknown		
13.2.2.1.1.2	13.2.2.1.1.2 Note: The test request should be given early enough from the STM to the driver to allow the driver to perform the test procedure at a stopping location where time and other conditions are suitable prior to deactivation of the STM because no test was performed.		False	False	False	Unknown		
13.2.2.1.2	13.2.2.1.2 The plain text message shall be composed of up to 20 characters encoded as	ETCS	True	True	False	OT	11a.0.0.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	ISO 8859-1, also known as Latin alphabet #1.							
13.2.2.1.3	13.2.2.1.3 The STM shall not send a test request information while the ETCS On-board is in mode TR, PT, RV, or SL.	STM National STM European	True	True	False	OT	11a.0.0.0.0	
13.2.2.1.3.1	13.2.2.1.3.1 Note: This is to avoid disturbing the driver in critical situations or when no driver is present in the cab.		False	False	False	Unknown		
13.2.2.1.4	13.2.2.1.4 At any time a test request is received from an STM, the ETCS On-board (STM Control Function) shall display the plain text message of the test request to the driver.	ETCS	True	True	False	OT	11a.0.0.0.0	
13.2.2.1.5	13.2.2.1.5 The ETCS On-board STM Control Function shall delete the text message indication to the driver when the test procedure for the corresponding STM is triggered by the driver.	ETCS	True	True	False	OT	11a.0.0.0.0	
13.2.2.2	13.2.2.2 The test request from an STM shall be only an information to the driver.		False	False	False	Unknown		Definition
13.2.3	13.2.3 Test procedure		False	False	False	Unknown		
13.2.3.1	13.2.3.1		False	False	False	Unknown		
13.2.3.1.1	13.2.3.1.1 An STM that requires its own operational test will allow the driver to perform these tests through the Specific STM Data Entry procedure.		False	False	False	Unknown		Definition
13.2.3.1.2	13.2.3.1.2 The STM shall request the test procedure while the ETCS On-board is in SB mode only.	STM National STM European	True	True	False	OT	11b.0.1.0, 11b.0.2.0.0	
13.2.3.1.3	13.2.3.1.3 If the STM has an STM operational test, the STM shall send the test activation request as an Specific STM Data request to the ETCS On-board STM Control Function during the	ETCS STM National STM	True	True	False	OT	11b.0.1.0, 11b.0.2.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Specific STM Data entry procedure.	European						
13.2.3.1.3.1	13.2.3.1.3.1 Note: If the STM that has a STM operational test has no Specific STM Data, the STM should ask at least for the test activation from the driver.		False	False	False	Unknown		
13.2.3.1.3.2	13.2.3.1.3.2 Note: The Specific STM Data for the test activation may be implemented with a pick up list to select if the test is needed or not.		False	False	False	Unknown		
13.2.3.1.4	13.2.3.1.4 The STM shall start the test procedure when it receives the activation from the driver through the corresponding received Specific STM Data.		True	False	False	OT		STM internal
13.2.3.1.4.1	13.2.3.1.4.1 Note: It should be up to the driver to know if it is allowed to test more than one STM at the same time.		False	False	False	Unknown		
13.2.3.1.4.2	13.2.3.1.4.2 Note: Some ETCS specific implementations may not allow to perform two STM tests at the same time because the Specific STM Data Entry is performed as a sequence (One STM after the other).		False	False	False	Unknown		
13.2.3.1.4.3	13.2.3.1.4.3 Note: During its own test procedure, the STM may ask the driver for extra confirmation by means of Specific STM Data entry request.		False	False	False	Unknown		
13.2.3.1.5	13.2.3.1.5 Once the STM has finished its test procedure, it shall send the test result (OK, not OK or test aborted) as an Specific STM Data request to the ETCS On-board STM Control Function.	STM National STM European	True	True	False	OT	11b.0.1.0, 11b.0.2.0.0	
13.2.3.1.5.1	13.2.3.1.5.1 Note: The Specific STM Data for the test result may be implemented with a default value or pick up list to allow the driver to select if the test result is accepted.		False	False	False	Unknown		
13.2.3.1.6	13.2.3.1.6 When the test result acceptance by the driver is received by the STM, the STM operational test shall be finished.	ETCS	True	True	False	OT	11b.0.1.0, 11b.0.2.0.0	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.2.3.1.7	13.2.3.1.7 When the STM operational test is finished, the STM shall be allowed to request a new STM operational test.		True	False	False	OT		STM internal
13.2.3.1.8	13.2.3.1.8 If the STM requires information from the ETCS On-board TIU and/or BIU to perform its test, the STM may open the connection to the ETCS TIU and/or BIU functions as long as the test procedure is running.	ETCS	True	True	False	OT	11b.0.2.0.0	
13.2.3.1.8.1	13.2.3.1.8.1 Justification: An STM may need e. g. the current state of the emergency brake to check the brake activation.		False	False	False	Unknown		
13.2.3.1.9	13.2.3.1.9 If the STM opens the connection to the ETCS TIU and/or BIU functions while the test procedure is running and the STM is not in data available (DA) state, the STM shall not give any output information for the ETCS On-board TIU and BIU.	ETCS STM National STM European	True	False	False	OT		STM internal
13.2.4	13.2.4 Test results		False	False	False	Unknown		
13.2.4.1	13.2.4.1		False	False	False	Unknown		
13.2.4.1.1	13.2.4.1.1 The handling of the test result of an STM is out of scope for the ETCS On-board except for displaying the test result.		False	False	False	Unknown		
13.2.4.1.1.1	13.2.4.1.1.1 Note: If the STM fails the test, it may e.g. enter FA state or apply the brakes if in state DA. This is STM implementation.		False	False	False	Unknown		
13.3	13.3 Override, Functional behaviour between STM / ETCS		False	False	False	Unknown		titel
13.3.1	13.3.1 Philosophy (non-normative)		False	False	False	Unknown		titel
13.3.1.1	13.3.1.1		False	False	False	Unknown		empty paragraph
13.3.1.1.1	13.3.1.1.1 Each system, when active informs the other ones about the activation of the override function. According to this activation the override function of all systems is activated		False	False	False	Unknown		description of the principle

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	but every system is allowed to end its internal override function according to the national rules. The ETCS On-board STM Control Function reports to all STMs about the ETCS override status: activated or deactivated.							
13.3.2	13.3.2 Requirements		False	False	False	Unknown		titel
13.3.2.1	13.3.2.1		False	False	False	Unknown		empty paragraph
13.3.2.1.1	13.3.2.1.1 The ETCS override status shall be activated when:	ETCS	True	True	False	OVR	12a.0.1.0, 12a.0.2.0.0.0, 12b.0.1.0, 12b.0.2.0.0.0, 12b.0.3.0.0.0.0.0, 12c.0.1.0, 12c.0.2.0.0.0, 12c.0.3.0.0.0.0.0	
13.3.2.1.1.1	13.3.2.1.1.1 While in ETCS Level 0, 1, 2 or 3, and the ETCS override is activated according to the ERTMS/ETCS rules (see ref /1/ SUBSET-026; SRS Version 2.2.2)	ETCS	True	True	False	OVR	12a.0.1.0, 12a.0.2.0.0.0	
13.3.2.1.1.2	13.3.2.1.1.2 While in Level STM and the active STM has reported the activation of its own override procedure to the STM Control Function.	ETCS	True	True	False	OVR	12b.0.1.0, 12b.0.2.0.0.0, 12b.0.3.0.0.0.0.0	
13.3.2.1.1.3	13.3.2.1.1.3 While in Level STM and the ETCS override request is not inhibited by the active STM, and the ETCS override is activated according to the ERTMS/ETCS rules (see ref /1/ SUBSET-026; SRS Version 2.2.2).	ETCS	True	True	False	OVR	12c.0.1.0, 12c.0.2.0.0.0, 12c.0.3.0.0.0.0.0	
13.3.2.1.2	13.3.2.1.2 While in Level STM and the national rules to activate the override function are fulfilled, the active STM shall report the activation of its own override procedure to the STM Control Function.	STM National STM European	True	False	False	OVR		STM internal
13.3.2.1.3	13.3.2.1.3 The ETCS On-board STM Control Function shall report to all STMs about the ETCS override status (activated or deactivated) whenever it changes.	ETCS	True	True	False	OVR	12a.0.1.0, 12a.0.2.0.0.0, 12b.0.1.0, 12b.0.2.0.0.0, 12b.0.3.0.0.0.0.0, 12c.0.1.0, 12c.0.2.0.0.0, 12c.0.3.0.0.0.0.0	
13.3.2.1.4	13.3.2.1.4 The ETCS override Status is deactivated according to the ERTMS/ETCS rules. (see ref /1/ SUBSET-026; SRS Version	ETCS	True	True	False	OVR	12a.0.1.0, 12a.0.2.0.0.0, 12b.0.1.0, 12b.0.2.0.0.0, 12b.0.3.0.0.0.0.0, 12c.0.1.0,	

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	2.2.2)						12c.0.2.0.0.0, 12c.0.3.0.0.0.0.0	
13.3.2.1.5	13.3.2.1.5 All non-active STMs may activate their own override procedure when they receive the ETCS override Status activation from the STM Control Function.	STM National STM European	False	False	False	OVR		STM internal
13.3.2.1.6	13.3.2.1.6 All STMs may deactivate their own override procedure according to their national rules.	STM National STM European	True	False	False	OVR		STM internal
14	14 Bus		False	False	False	Unknown		
14.1	14.1 The Profibus		False	False	False	Unknown		
14.1.1	14.1.1		False	False	False	Unknown		
14.1.1.1	14.1.1.1 The bus used for the interface between STM and ETCS On-Board functions shall be the Profibus, defined by /14/ CENELEC 50170-2 (1996) Profibus.		False	True	False	Unknown		
14.1.1.2	14.1.1.2 The Profibus protocol is used up to the FDL layer.		False	False	False	Unknown		
14.1.1.2.1	14.1.1.2.1 Note: The use of the FDL layer is specified in /11/ SUBSET-057 STM FFFIS Safe Link Layer, chapter 4 Profibus Interface (FDL).		False	False	False	Unknown		
14.1.1.3	14.1.1.3 The bus configuration parameters for the PROFIBUS shall be:	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.0-1	Baud Rate: 1500 Kbps	ETCS STM National STM European	False	True	False	SOM ASU		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.1.1.3.0-2	Minimum Station Delay of Responders (min T_{SDR}): 11 tBit	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.0-3	Maximum Station Delay of Responders (max T_{SDR}): 150 tBit	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.0-4	Slot Time (T_{SL}): 300 tBit	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.0-5	Quiet Time (T_{QUI}): 0 tBit	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.0-6	Setup Time (T_{SET}): 1 tBit	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.0-7	Time Target Rotation (T_{TR}): 30000 tBit (20 ms)	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.0-8	GAP Actualisation Factor (G): 10	ETCS	False	True	False	SOM		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
		STM National STM European				ASU		
14.1.1.3.0-9	Highest Station Address (HSA): 126	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.0-10	Max Retry Limit (max_retry_limit): 1	ETCS STM National STM European	False	True	False	SOM ASU		
14.1.1.3.1	14.1.1.3.1 Note: This allows for a maximum permissible line length (Profibus length) of 200 m per segment and a maximum number of 32 stations when using cable type A. In case a greater length or more stations are required, repeaters can be used without changing the configuration.		False	False	False	Unknown		
14.1.1.4	14.1.1.4 The communication via the Profibus shall be possible for STM and STM group internal purposes. This is out of the scope of this specification.		True	False	False	Unknown		STM group internal
14.1.1.5	14.1.1.5 Note: The Profibus is allowed, but not required, for STM internal communication. The communication via the Profibus shall be possible for ETCS internal purposes. This is out of the scope of this specification.		False	False	False	Unknown		
14.1.1.5.1	14.1.1.5.1 Note. The Profibus is allowed, but not required for ERTMS/ETCS On-board internal communication.		False	False	False	Unknown		
14.1.1.6	14.1.1.6 The bus shall not unnecessarily restrict the architectural freedom for STMs or		True	False	False	Unknown		STM and ETCS internal

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	ETCS on-board.							
14.1.2	14.1.2 Physical connection		False	False	False	Unknown		
14.1.2.1	14.1.2.1 The default physical medium shall be RS-485 twisted pair shielded copper cable.		False	True	False	Unknown		
14.1.2.2	14.1.2.2 The default connectors of the different equipments (ETCS On-Board functions and STMs) shall be 9-pin female D-SUB and cabling according to Profibus specifications.		False	True	False	Unknown		
14.1.2.3	14.1.2.3 Exception: An equipment is allowed to fulfil the Profibus specification for optical media instead of copper cable. In this case a media converter to the copper media and 9-pin D-SUB shall be the responsibility of the supplier of optical media based equipment.		False	False	False	Unknown		Train implementation issue.
14.1.3	14.1.3 Bus redundancy and retransmission		False	False	False	Unknown		
14.1.3.1	14.1.3.1 Retransmission is specified in /11/ SUBSET-057 STM FFFIS Safe Link Layer	ETCS STM National STM European	True	False	False	Unknown		
14.1.3.2	14.1.3.2 Regarding bus redundancy, the STM and ETCS on-board shall have at least one bus interface each, and may have two interfaces.		False	True	False	Unknown		
14.1.3.3	14.1.3.3 In case STM and ETCS on-board does not have the same number of buses, only one bus shall be connected. This shall only have availability implications.		False	True	False	Unknown		
14.1.3.4	14.1.3.4 The dual bus configuration shall be managed by the "Redundancy Supervisor" see Ref.: /11/ SUBSET-057 STM FFFIS Safe Link Layer.	ETCS STM National STM European	True	False	False	Unknown		
14.2	14.2 Safety		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.2.1	14.2.1		False	False	False	Unknown		
14.2.1.1	14.2.1.1 To allow communication between equipments with different Safety Integrity Levels (SIL), the FFFIS STM shall provide communication with three levels of safety protocol (SL):		False	True	False	Unknown		
14.2.1.1.0-1	Safety Level 4 (SL 4)		False	True	False	Unknown		
14.2.1.1.0-2	Safety Level 2 (SL 2)		False	True	False	Unknown		
14.2.1.1.0-3	Safety Level 0 (SL 0)		False	True	False	Unknown		
14.2.1.1.1	14.2.1.1.1 Justification: According to the requirements for Safety-related communication in closed transmission systems (see /19/ CENELEC EN 50159-1 (2001) Safety related communication in closed transmission systems), an equipment with no or a low Safety Integrity Level shall not masquerade as an equipment with a higher Safety Integrity Level. This requirement shall be fulfilled by using the defined Safety Levels.		False	False	False	Unknown		
14.2.1.1.2	14.2.1.1.2 Note: The three levels of safety are specified in /11/ SUBSET-057 STM FFFIS Safe Link Layer and /10/ SUBSET-056 STM FFFIS Safe Time Layer.		False	False	False	Unknown		
14.2.1.2	14.2.1.2 All equipments shall not implement any Safety Level corresponding to a higher Safety Integrity Level (SIL).	ETCS STM National STM European	True	False	False	Unknown		Equipment internal
14.2.1.3	14.2.1.3 STMs with a Safety Integrity Level higher than SIL 0 may implement and simultaneously use more than one safety level		True	False	False	Unknown		STM internal

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	in parallel.							
14.2.1.4	14.2.1.4 ETCS On-Board functions shall implement all the safety protocols up to the Safety Level (SL) corresponding to the SIL of the function.		False	True	False	Unknown		
14.3	14.3 On-board Architecture		False	False	False	Unknown		
14.3.1	14.3.1		False	False	False	Unknown		
14.3.1.1	14.3.1.1 Each STM shall only have one physical bus address (Station/Node address) towards the ETCS On-board.	STM National STM European	True	False	False	Unknown		STM internal
14.3.1.2	14.3.1.2 The ETCS on-board may use one or several physical bus addresses. This is depending on architecture.	ETCS	True	False	False	Unknown		ETCS internal
14.3.1.3	14.3.1.3 The STM shall be able to handle various configurations of physical addressing in the ETCS on-board.		True	False	False	Unknown		STM internal
14.3.1.4	14.3.1.4 STM shall take the initiative to open communication.	STM National STM European	True	True	False	ASU	2.0.0.0.2.0.2.0.1.0 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2 2.0.0.0.5.0.2.0.2.0.0.0.1.0.0.1.3.0.1.0.1.0	
14.3.1.4.0-1			False	False	False	Unknown		
14.3.1.4.0-2	Figure 17: Monolithic architecture of ETCS on-board		False	False	False	Unknown		
14.3.1.5	14.3.1.5 In case of monolithic architecture, only one physical address is required by the ETCS on-board.		True	False	False	Unknown		ETCS internal
14.3.1.5.0-1			False	False	False	Unknown		

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14.3.1.5.0-2	Figure 18: Distributed architecture of ETCS on-board		False	False	False	Unknown		
14.3.1.6	14.3.1.6 In case of a fully distributed architecture, several physical addresses are used by ETCS on-board.		True	False	False	Unknown		ETCS internal
14.3.1.7	14.3.1.7 An STM communicating with a distributed ETCS on-board shall be able to handle one different physical address for each ETCS On-board function.		False	True	False	Unknown		
14.3.1.8	14.3.1.8 Intermediate architectures shall be allowed. Functions can be combined in the nodes arbitrarily.	STM National STM European	True	False	False	Unknown		
14.3.1.9	14.3.1.9 The implementation of more than one STM in the same hardware using the same physical address shall be allowed.		False	True	False	Unknown		
14.3.1.9.1	14.3.1.9.1 Note: This does not apply to STM groups as they appear to the ETCS On-board as one STM (see 4.1.5).		False	False	False	Unknown		
14.3.1.10	14.3.1.10 In case of an implementation of more than one STM in the same hardware using the same physical address, the STMs shall share the same connection at Profibus FDL Layer, Safe Link Layer and Safe Time Layer to the ETCS On-board functions.		True	False	False	Unknown		STM internal
14.3.1.11	14.3.1.11 In case of an implementation of more than one STM in the same hardware using the same physical address, each STM shall establish its own connection at Application Layer.		True	False	False	Unknown		STM internal
14.4	14.4 Physical Addressing (Station/Nodes addresses)		False	False	False	Unknown		
14.4.1	14.4.1		False	False	False	Unknown		
14.4.1.1	14.4.1.1 The physical addresses shall be		False	True	False	Unknown		

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	allocated according to the following table.							
14.4.1.1.0-1.0-1.0-1	Physical Address		False	True	False	Unknown		
14.4.1.1.0-1.0-1.0-2	Device		False	True	False	Unknown		
14.4.1.1.0-1.0-2.0-1	2	ETCS STM National STM European	True	True	False	SOM ASU	2.0.0.0.2.0.2.0.1.0 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2	
14.4.1.1.0-1.0-2.0-2	ETCS STM Control Function	ETCS STM National STM European	True	True	False	SOM ASU	2.0.0.0.2.0.2.0.1.0 2.0.0.0.3.0.2.0.2.0.0.0.2.0 2.0.0.0.6.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.7.0.2.0.2.0.0.0.1.0.0.1.1 2.0.0.0.1.0.2.0.2.0.0.0.1.0.0.1.2 2.0.0.0.9.0.2.0.2.0.0.0.1.0.0.1.3.0.2	
14.4.1.1.0-1.0-3.0-1	0, 1, 3 . . 19		False	False	False	Unknown		This values shall be parametrable in the STM and in the ETCS.
14.4.1.1.0-1.0-3.0-2	ETCS Functions		False	True	False	Unknown		
14.4.1.1.0-1.0-4.0-1	20 . . 49		False	True	False	Unknown		
14.4.1.1.0-1.0-4.0-2	Non ETCS nor STM Functions		False	True	False	Unknown		
14.4.1.1.0-1.0-5.0-1	50 . . 69	STM National STM European	True	False	False	ASU		STM internal
14.4.1.1.0-1.0-5.0-2	STM Configurable addresses range	STM National STM European	True	False	False	ASU		STM internal

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14.4.1.1.0-1.0-6.0-1	70 . . 126	STM National STM European	True	False	False	ASU		STM internal
14.4.1.1.0-1.0-6.0-2	STMs (NID_STM+70)	STM National STM European	True	False	False	ASU		STM internal
14.4.1.1.0-1.0-7.0-1	127		False	True	False	Unknown		
14.4.1.1.0-1.0-7.0-2	Reserved for Broadcast and Multicast		False	True	False	Unknown		
14.4.1.2	14.4.1.2 By default the Physical address of an STM (or STM group) shall be the NID_STM value + 70.		False	False	False	Unknown		Definition
14.4.1.3	14.4.1.3 STM Configurable addresses range shall be used:	STM National STM European	False	True	False	Unknown		
14.4.1.3.0-1	For STMs for which the sum of NID_STM value +70 goes out of the Profibus physical address range	STM National STM European	False	True	False	Unknown		
14.4.1.3.0-2	For STM internal functions.		False	True	False	Unknown		
14.4.1.3.0-3	For systems not in the UIC list of NID_STM.	STM National STM European	False	True	False	Unknown		
14.4.1.4	14.4.1.4 In case several STMs are implemented in one hardware this device shall use the	STM National	False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	physical address of any of its included STMs or a configurable physical address.	STM European						
14.4.1.5	14.4.1.5 Every device which uses a physical address in the STM Configurable addresses range shall have a configurable physical address in order to solve address conflicts.	STM National STM European	False	True	False	Unknown		
14.5	14.5 Function Addressing		False	False	False	Unknown		
14.5.1	14.5.1		False	False	False	Unknown		
14.5.1.1	14.5.1.1 The FFFIS STM requires communication between different functions in the ETCS On-board (implemented with a monolithic or distributed architecture) and the STMs as e. g. Odometer, DMI and JRU.		False	False	False	Unknown		Definition
14.5.1.2	14.5.1.2 To address different stations (equipment) in case of a distributed architecture, the Profibus supports physical addresses (Station/Node addresses).		False	False	False	Unknown		Definition
14.5.1.3	14.5.1.3 To address different functions in a station (equipment) the Profibus supports "Service Access Points" (SAPs).		False	False	False	Unknown		Definition
14.5.1.4	14.5.1.4 The FFFIS STM shall use physical "addresses (Station/Node addresses) to support a distributed architecture of the ETCS On-board.	ETCS STM National STM European	True	False	False	Unknown		
14.5.1.5	14.5.1.5 The FFFIS STM shall use Service Access Points (SAPs) to support communication between STMs and the different ETCS On-board functions.	ETCS STM National STM European	True	False	False	Unknown		
14.5.1.6	14.5.1.6 All ETCS Functions shall have a	ETCS	True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	defined fixed SAP.							
14.5.1.6.1	14.5.1.6.1 Note: The SAP is fixed regardless of the chosen architecture (monolithic or distributed). Different equipments (stations) are addressed via the physical address (Station/Node address).		False	False	False	Unknown		
14.5.1.7	14.5.1.7 For transmitting data between ETCS On-board and the STMs, the local (Source) Service Access Point (SSAP) and partner (Destination) Service Access Point (DSAP) shall have the same value.	ETCS STM National STM European	False	True	False	Unknown		
14.5.1.8	14.5.1.8 One STM shall have no more than one logical connection per ETCS On-board function.	STM National STM European	True	False	False	Unknown		STM internal
14.5.1.9	14.5.1.9 The SAP number shall be defined according to the following table:	ETCS STM National STM European	False	True	False	Unknown		
14.5.1.9.0-1.0-1.0-1	Logical connections		False	True	False	Unknown		
14.5.1.9.0-1.0-1.0-2	SAP# (binary)		False	True	False	Unknown		
14.5.1.9.0-1.0-1.0-3	# of SAP		False	True	False	Unknown		
14.5.1.9.0-1.0-1.0-4	Comment		False	True	False	Unknown		
14.5.1.9.0-1.0-2.0-1	DMI Cab A redundant		False	True	False	Unknown		
14.5.1.9.0-1.0-2.0-2	000000		False	True	False	Unknown		
14.5.1.9.0-1.0-2.0-3	1		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.5.1.9.0-1.0-2.0-4	Point to Point		False	True	False	Unknown		
14.5.1.9.0-1.0-3.0-1	DMI Cab B redundant		False	True	False	Unknown		
14.5.1.9.0-1.0-3.0-2	000001		False	True	False	Unknown		
14.5.1.9.0-1.0-3.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-3.0-4	Point to Point		False	True	False	Unknown		
14.5.1.9.0-1.0-4.0-1	Juridical Recorder		False	True	False	Unknown		
14.5.1.9.0-1.0-4.0-2	000010		False	True	False	Unknown		
14.5.1.9.0-1.0-4.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-4.0-4	Point-to-point		False	True	False	Unknown		
14.5.1.9.0-1.0-5.0-1	Reserved for FFFIS STM		False	True	False	Unknown		
14.5.1.9.0-1.0-5.0-2	000011		False	True	False	Unknown		
14.5.1.9.0-1.0-5.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-5.0-4	Not used (reserved for backward compatibility).		False	True	False	Unknown		
14.5.1.9.0-1.0-6.0-1	DMI Cab A main		False	True	False	Unknown		
14.5.1.9.0-1.0-6.0-2	000100		False	True	False	Unknown		
14.5.1.9.0-1.0-6.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-6.0-4	Point-to-point		False	True	False	Unknown		
14.5.1.9.0-	DMI Cab B main		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-7.0-1								
14.5.1.9.0-1.0-7.0-2	000101		False	True	False	Unknown		
14.5.1.9.0-1.0-7.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-7.0-4	Point-to-point		False	True	False	Unknown		
14.5.1.9.0-1.0-8.0-1	Diagnostic Recorder		False	True	False	Unknown		
14.5.1.9.0-1.0-8.0-2	000110		False	True	False	Unknown		
14.5.1.9.0-1.0-8.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-8.0-4	Point-to-point		False	True	False	Unknown		
14.5.1.9.0-1.0-9.0-1	Reserved for FFFIS STM		False	True	False	Unknown		
14.5.1.9.0-1.0-9.0-2	000111		False	True	False	Unknown		
14.5.1.9.0-1.0-9.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-9.0-4	Reserved for future extension of the specification		False	True	False	Unknown		
14.5.1.9.0-1.0-10.0-1	ETCS On-board internal		False	True	False	Unknown		
14.5.1.9.0-1.0-10.0-2	001XXX		False	True	False	Unknown		
14.5.1.9.0-1.0-10.0-3	8		False	True	False	Unknown		
14.5.1.9.0-1.0-10.0-4	To be defined by on-board implementers		False	True	False	Unknown		
14.5.1.9.0-1.0-11.0-1	On-board		False	True	False	Unknown		
14.5.1.9.0-1.0-11.0-2	01XXXX		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.5.1.9.0-1.0-11.0-3	16		False	True	False	Unknown		
14.5.1.9.0-1.0-11.0-4	To be defined by on-board implementers		False	True	False	Unknown		
14.5.1.9.0-1.0-12.0-1	Reference Clock		False	True	False	Unknown		
14.5.1.9.0-1.0-12.0-2	100000		False	True	False	Unknown		
14.5.1.9.0-1.0-12.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-12.0-4	Multicast		False	True	False	Unknown		
14.5.1.9.0-1.0-13.0-1	STM Control		False	True	False	Unknown		
14.5.1.9.0-1.0-13.0-2	100001		False	True	False	Unknown		
14.5.1.9.0-1.0-13.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-13.0-4	Point-to-point		False	True	False	Unknown		
14.5.1.9.0-1.0-14.0-1	European Supervision		False	True	False	Unknown		
14.5.1.9.0-1.0-14.0-2	100010		False	True	False	Unknown		
14.5.1.9.0-1.0-14.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-14.0-4	Point-to-point		False	True	False	Unknown		
14.5.1.9.0-1.0-15.0-1	Reserved for FFFIS STM		False	True	False	Unknown		
14.5.1.9.0-1.0-15.0-2	100011		False	True	False	Unknown		
14.5.1.9.0-1.0-15.0-3	1		False	True	False	Unknown		
14.5.1.9.0-	Not used (reserved for backward compatibility).		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-15.0-4								
14.5.1.9.0-1.0-16.0-1	Odometer		False	True	False	Unknown		
14.5.1.9.0-1.0-16.0-2	100100		False	True	False	Unknown		
14.5.1.9.0-1.0-16.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-16.0-4	Multicast		False	True	False	Unknown		
14.5.1.9.0-1.0-17.0-1	Train Interface		False	True	False	Unknown		
14.5.1.9.0-1.0-17.0-2	100101		False	True	False	Unknown		
14.5.1.9.0-1.0-17.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-17.0-4	Point-to-point		False	True	False	Unknown		
14.5.1.9.0-1.0-18.0-1	Brake Interface		False	True	False	Unknown		
14.5.1.9.0-1.0-18.0-2	100110		False	True	False	Unknown		
14.5.1.9.0-1.0-18.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-18.0-4	Point-to-point		False	True	False	Unknown		
14.5.1.9.0-1.0-19.0-1	Reserved for FFFIS STM		False	True	False	Unknown		
14.5.1.9.0-1.0-19.0-2	100111		False	True	False	Unknown		
14.5.1.9.0-1.0-19.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-19.0-4	Reserved for future extension of the specification		False	True	False	Unknown		
14.5.1.9.0-1.0-20.0-1	STM (Group) internal		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.5.1.9.0-1.0-20.0-2	101XXX		False	True	False	Unknown		
14.5.1.9.0-1.0-20.0-3	8		False	True	False	Unknown		
14.5.1.9.0-1.0-20.0-4	Defined by each implementer.		False	True	False	Unknown		
14.5.1.9.0-1.0-21.0-1	Reserved for FFFIS STM		False	True	False	Unknown		
14.5.1.9.0-1.0-21.0-2	11XXXX Except 111111 reserved for broadcast		False	True	False	Unknown		
14.5.1.9.0-1.0-21.0-3	15		False	True	False	Unknown		
14.5.1.9.0-1.0-21.0-4	Reserved for future extension of the specification		False	True	False	Unknown		
14.5.1.9.0-1.0-22.0-1	Broadcast		False	True	False	Unknown		
14.5.1.9.0-1.0-22.0-2	111111		False	True	False	Unknown		
14.5.1.9.0-1.0-22.0-3	1		False	True	False	Unknown		
14.5.1.9.0-1.0-22.0-4	Reserved due to profibus specification		False	True	False	Unknown		
14.5.1.10	14.5.1.10 There shall be only one source (one station/node address) which shall transmit messages using the SAP reserved for the reference clock function.	ETCS	False	True	False	Unknown		
14.5.1.11	14.5.1.11 There shall be only one source (one station/node address) which shall transmit messages using the SAP reserved for the odometer function.	ETCS	False	True	False	Unknown		
14.6	14.6 Protocol Layers		False	False	False	Unknown		
14.6.1	14.6.1		False	False	False	Unknown		
14.6.1.1	14.6.1.1 The protocol layers are Application Layer (see Ref.: /13/ SUBSET-058 STM	ETCS STM	True	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Application Layer), Safe Time Layer (see Ref.:/10/ SUBSET-056 STM FFFIS Safe Time Layer), Safe Link Layer (see Ref.:/11/ SUBSET-057 STM FFFIS Safe Link Layer) and Profibus FDL layer (see Ref.: /14/ CENELEC 50170-2 (1996)).	National STM European						
14.6.1.2	14.6.1.2 The Safe Time Layer and Safe Link Layer together shall be considered as the Safety Layers.	ETCS STM National STM European	False	False	False	Unknown		Definition
14.6.1.2.0-1			False	False	False	Unknown		
14.6.1.2.0-2	Figure 19: Application Data encapsulation by the layers in Profibus telegram		False	False	False	Unknown		
14.6.1.2.0-2.0-1			False	False	False	Unknown		
14.6.1.2.0-3	Figure 20: FFFIS STM Protocol Layers		False	False	False	Unknown		
15	15 Configuration Management		False	False	False	Unknown		
15.1	15.1 General		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
15.1.1	15.1.1 Aim and Objectives		False	False	False	Unknown		
15.1.1.1	15.1.1.1 During the life time of the FFFIS STM there may be several versions of the specification.		False	False	False	Unknown		
15.1.1.2	15.1.1.2 The objective of the interoperability configuration is to define principles to be applied in situations where different nodes have been certified to different versions.		False	False	False	Unknown		
15.1.1.3	15.1.1.3 Note: The handling of different software versions is out of the scope of the system configuration management.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.1.2	15.1.2 Evolution of the versions		False	False	False	Unknown		
15.1.2.1	15.1.2.1 The evolution of the versions of the FFFIS STM shall be sequential, i. e. there shall only be a direct upgrade of an existing version and no branch is accepted.		True	False	False	Unknown		Definition
15.1.2.2	15.1.2.2 The versions of the FFFIS STM shall be identified by a compatibility number which complies with the following:		True	False	False	Unknown		Definition
15.1.2.2.1	15.1.2.2.1 Each Compatibility Number will have the following format: X.Y.Z, where X, Y and Z are any number between 0 and 255 (examples: 1.12.0, 6.8.203, 65.0.15).		True	False	False	Unknown		Definition
15.1.2.2.2	15.1.2.2.2 The first number (X) distinguishes not compatible versions.		True	False	False	Unknown		Definition
15.1.2.2.3	15.1.2.2.3 The second number (Y) indicates compatibility within a version X.		True	False	False	Unknown		Definition
15.1.2.2.4	15.1.2.2.4 If the first number of two versions is the same, that indicates that those versions are compatible, independently of the second number (e. g. version 3.5 is compatible with 3.3, 3.14).		True	False	False	Unknown		Definition
15.1.2.2.5	15.1.2.2.5 The third number (Z) is a vendor-specific (version) number that indicates the implemented version X.Y.		True	False	False	Unknown		Definition
15.2	15.2 Compatibility Numbers		False	False	False	Unknown		
15.2.1	15.2.1		False	False	False	Unknown		
15.2.1.1	15.2.1.1 All nodes which have implemented the FFFIS STM shall transmit the Compatibility Number (7.5) according to 15.2.1.3.		True	False	False	Unknown		Definition
15.2.1.2	15.2.1.2 The Compatibility Number shall be changed with every official release of this document.		True	False	False	Unknown		Definition
15.2.1.3	15.2.1.3 Compatibility Table		True	False	False	Unknown		Definition

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.2.1.3.0-1.0-1.0-1	FFFIS STM (Subset-035)		False	False	False	Unknown		
15.2.1.3.0-1.0-1.0-2	15.2.1.3.0-1.0-1.0-2		False	False	False	Unknown		
15.2.1.3.0-1.0-2.0-1	Version of this Document		False	False	False	Unknown		
15.2.1.3.0-1.0-2.0-2	Compatibility Number		False	False	False	Unknown		
15.2.1.3.0-1.0-2.0-3	Difference to previous version (overview)		False	False	False	Unknown		
15.2.1.3.0-1.0-3.0-1	2.0.0		False	False	False	Unknown		
15.2.1.3.0-1.0-3.0-2	X=2, Y=0, Z=0		False	False	False	Unknown		
15.2.1.3.0-1.0-3.0-3	Initial Revision.		False	False	False	Unknown		
15.2.1.3.0-1.0-4.0-1	2.1.1		False	False	False	Unknown		
15.2.1.3.0-1.0-4.0-2	X=3,Y=0,Z		False	False	False	Unknown		
15.2.1.3.0-1.0-4.0-3	General revision of the specification:Z is vendor specific		False	False	False	Unknown		
15.2.1.3.0-1.0-5.0-1	15.2.1.3.0-1.0-5.0-1		False	False	False	Unknown		
15.2.1.3.0-1.0-5.0-2	15.2.1.3.0-1.0-5.0-2		False	False	False	Unknown		
15.2.1.3.0-1.0-5.0-3	15.2.1.3.0-1.0-5.0-3		False	False	False	Unknown		
15.2.1.3.0-1.0-6.0-1	15.2.1.3.0-1.0-6.0-1		False	False	False	Unknown		
15.2.1.3.0-1.0-6.0-2	15.2.1.3.0-1.0-6.0-2		False	False	False	Unknown		
15.2.1.3.0-1.0-6.0-3	15.2.1.3.0-1.0-6.0-3		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
16	16 Annex A (System Diagrams linked to the Level Transitions with STMs)		False	False	False	Unknown		
16.1	16.1 ETCS -> STM		False	False	False	Unknown		
16.1.0-1			False	False	False	Unknown		
16.2	16.2 ETCS ->STM (Trip mode)		False	False	False	Unknown		
16.2.0-1			False	False	False	Unknown		
16.3	16.3 ETCS -> STM (NL/SL)		False	False	False	Unknown		
16.3.0-1			False	False	False	Unknown		
16.4	16.4 STM -> ETCS		False	False	False	Unknown		
16.4.0-1			False	False	False	Unknown		
16.5	16.5 STM -> ETCS (NL/SL)		False	False	False	Unknown		
16.5.0-1			False	False	False	Unknown		
16.6	16.6 STMx -> STMy		False	False	False	Unknown		
16.6.0-1			False	False	False	Unknown		
16.7	16.7 STMx -> STMy (NL/SL)		False	False	False	Unknown		
16.7.0-1			False	False	False	Unknown		
16.8	16.8 Power-On in Level STM		False	False	False	Unknown		
16.8.0-1			False	False	False	Unknown		
16.9	16.9 Power-On in Level STM (NL)		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
16.9.0-1			False	False	False	Unknown		
16.10	16.10 Power-On in Level STM (SL)		False	False	False	Unknown		
16.10.0-1			False	False	False	Unknown		
17	17 Annex B Requirements for the Transitions (Non Normative)		False	False	False	Unknown		
17.1	17.1		False	False	False	Unknown		
17.1.1	17.1.1		False	False	False	Unknown		
17.1.1.1	17.1.1.1 This non-normative chapter includes copies of the requirements listed in /1/ SUBSET-026; SRS Version 2.2.2 as well as in this specification and is intended to give the sequence of the actions for the transitions from and to STMs.		False	False	False	Unknown		
17.1.1.2	17.1.1.2 Together with the copy of the requirements, the origin of the requirement is included in this chapter:		False	False	False	Unknown		
17.1.1.2.0-1	SRS: /1/ SUBSET-026; SRS Version 2.2.2		False	False	False	Unknown		
17.1.1.2.0-2	FFFIS STM: this specification		False	False	False	Unknown		
17.1.1.3	17.1.1.3 Requirements for ETCS On-board are written in blue and the requirements for STMs are written in red to indicate if a requirement has to be implemented in the ETCS On-board or the STMs.		False	False	False	Unknown		
17.2	17.2 Transition ETCS to STM (except for non-leading / sleeping and trip situation)		False	False	False	Unknown		
17.2.1	17.2.1 Requirements for the announcement of the transition		False	False	False	Unknown		
17.2.1.1	17.2.1.1 (SRS: 5.10.3.9.1 (Level 1), 5.10.3.10.1		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	(Level 2/3)) For the train to be able to enter the new area, the old area must possess information about at least the first section of the new area. The information may be transmitted to the train either							
17.2.1.1.0-1	as an MA and track description information into the new area, or		False	False	False	Unknown		
17.2.1.1.0-2	as a target speed at the border location i.e. as an LOA.		False	False	False	Unknown		
17.2.1.2	17.2.1.2 (FFFIS STM: 7.5.1.2) The ETCS trackside shall transmit a speed profile, which limits the speed from the point where the national trackside equipment starts up to the transition border. The speed limit shall be engineered to respect the maximum system speed of the announced level with the highest priority.		False	False	False	Unknown		
17.2.1.3	17.2.1.3 (FFFIS STM: 7.5.1.2.1) Note: This is to allow the STM to detect and read its national trackside.		False	False	False	Unknown		
17.2.1.4	17.2.1.4 (FFFIS STM 7.5.1.2.2) Definition: The maximum system speed shall be defined as the highest speed at which a (national) train control system is able to detect and read its (national) trackside.		False	False	False	Unknown		
17.2.1.5	17.2.1.5 (SRS: 5.10.1.1) Every level transition into levels 2, 3, or STM shall be announced to the ERTMS/ETCS on-board equipment via balise group or via the RBC.		False	False	False	Unknown		
17.2.1.6	17.2.1.6 (SRS: 5.10.1.2) A level transition announcement to the ERTMS/ETCS on-board equipment shall consist of an order to execute the level transition at a further location corresponding to the border.		False	False	False	Unknown		
17.2.1.7	17.2.1.7 (SRS: 5.10.2.2) When going to a mixed level area, the level transition announcement and the level transition order at the border shall		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	contain all the supported ERTMS/ETCS levels with a table of priority.							
17.2.1.8	17.2.1.8 (SRS: 5.10.2.3) The table of priority shall list all the supported levels from the highest priority level to the lowest one.		False	False	False	Unknown		
17.2.1.8.1	17.2.1.8.1 (SRS: 5.10.2.3.1) Examples: table gives 3, 2, STM X, 1, STM Y, 0. Train is fitted for level 1 and STM X, it will select STM X level. Train is fitted for level 1 and STM Y, it will select level 1. Train is level 2 fitted, it will select level 2.		False	False	False	Unknown		
17.2.1.9	17.2.1.9 (SRS: 5.10.2.4) When receiving the information about all ERTMS/ETCS levels that are available, the ERTMS/ETCS on-board equipment shall select in the table the level with the highest priority that the onboard equipment allows to use.		False	False	False	Unknown		
17.2.1.10	17.2.1.10 (SRS: 5.10.2.7) If the ERTMS/ETCS on-board equipment is not fitted for any of the announced levels it shall nevertheless make the transition, to the announced level with the lowest priority.		False	False	False	Unknown		
17.2.1.11	17.2.1.11 (SRS: 5.10.1.3) When the ERTMS/ETCS on-board equipment receives a level transition announcement, it shall immediately inform the driver about the announced level transition.		False	False	False	Unknown		
17.2.1.12	17.2.1.12 (SRS: 5.10.2.6) The ERTMS/ETCS on-board equipment shall inform the driver only about the selected level transition.		False	False	False	Unknown		
17.2.1.13	17.2.1.13 (SRS: 5.10.1.7) As soon as the announcement of the level transition has been received, some data (mainly movement authority and track description data) from the transmission media of the new level shall be accepted, but shall not be used until the level transition is effective.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.1.14	17.2.1.14 (SRS: 5.10.3.9.2, and 5.10.3.10.2) When the announcement is received, a signal shall be sent by the ERTMS/ETCS on-board equipment to the STM specified in the announcement meaning that the STM shall prepare for immediate activation when the level transition location is passed with the estimated front end.		False	False	False	Unknown		
17.2.1.15	17.2.1.15 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.2.1.15.0-1.0-1.0-1	A6		False	False	False	Unknown		
17.2.1.15.0-1.0-1.0-2	(ETCS On-board receives an announcement for a level transition to Level STM X) AND ₁ (STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3		False	True	False	Unknown		
17.2.1.15.1	17.2.1.15.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.2.1.15.1.0-1	STM state order for HS		False	False	False	Unknown		
17.2.1.16	17.2.1.16 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.2.1.17	17.2.1.17 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.2.1.17.0-1.0-1.0-1	C16		False	True	False	Unknown		
17.2.1.17.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	of 10 seconds) see 7.4.1.2.3.2							
17.2.1.17.1	17.2.1.17.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.2.1.17.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.2.1.18	17.2.1.18 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.		False	False	False	Unknown		
17.2.1.19	17.2.1.19 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.2.1.19.0-1	When a connection is established		False	False	False	Unknown		
17.2.1.19.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.2.1.20	17.2.1.20 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.2.1.20.0-1	When a connection is established		False	False	False	Unknown		
17.2.1.20.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.2.1.21	17.2.1.21 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.2.1.21.0-1.0-1.0-1	6		False	True	False	Unknown		
17.2.1.21.0-1.0-1.0-2	ETCS order "Hot Standby"		False	True	False	Unknown		
17.2.1.21.1	17.2.1.21.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.2.1.21.1.1	Transition from CS to HS		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
0-1								
17.2.1.22	17.2.1.22 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.2.1.22.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.2.1.22.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.2.1.23	17.2.1.23 (FFFIS STM: 7.3.1.6.1) Being in the state HS, the STM shall be able to process the information from or to the national trackside.		False	False	False	Unknown		
17.2.1.24	17.2.1.24 (FFFIS STM: 7.3.1.6.1.1) Note: In HS state, when receiving national trackside information, the STM shall treat this information to be prepared to take in charge the train movement supervision once its state will switch to DA state.		False	False	False	Unknown		
17.2.2	17.2.2 Requirements for the area between announcement and transition border		False	False	False	Unknown		
17.2.2.1	17.2.2.1 (SRS: 5.10.4.1) If defined so for the level transition (see table below), the driver shall be asked to acknowledge the transition when the max safe front end of the train passes a trackside defined location in rear of the level transition border.		False	False	False	Unknown		
17.2.2.1.0-1	Note: The table which is referenced in 17.2.2.1 (SRS) is not included here. The table gives the requirement to have an acknowledgement from the driver for every level transition to Level STM.		False	False	False	Unknown		
17.2.2.2	17.2.2.2 (FFFIS STM: 7.3.1.6.2) The STM in HS shall have the possibility to send a "STM max speed" to the STM control function.		False	False	False	Unknown		
17.2.2.2.1	17.2.2.2.1 (FFFIS STM: 7.3.1.6.2.1) Note: This "STM max speed" is to allow the STM, for national reasons unknown to the ETCS On-board or ERTMS Trackside, to request a given train speed at the level transition border in order		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	to have a smooth transition.							
17.2.2.3	17.2.2.3 (FFFIS STM: 7.4.2.2.1) If receiving an "STM max speed" from an STM in HS state, the ETCS On-board shall include the "STM max speed" into the computation of the MRSP beginning at the level transition border and ending when the report "DA state" has been received by the ETCS On-board from the STM to be activated.		False	False	False	Unknown		
17.2.2.4	17.2.2.4 (FFFIS STM: 7.4.2.2.2) If the STM reports FA state, or is identified by the ETCS On-board as failed, then the ETCS On-board shall consider that STM max speed = 0.		False	False	False	Unknown		
17.2.2.5	17.2.2.5 (FFFIS STM: 7.4.2.2.2.1) Note: The purpose of the above requirement is to try to prevent the train to enter in an STM area while this STM is failed.		False	False	False	Unknown		
17.2.2.6	17.2.2.6 (FFFIS STM: 7.4.2.2.3) If the ETCS On-board does not receive an "STM max speed" value from the STM in HS state, the ETCS On-board shall not supervise any "STM max speed" at all and the computation of the MRSP is not affected.		False	False	False	Unknown		
17.2.2.7	17.2.2.7 (FFFIS STM: 7.3.1.6.3) The STM in HS shall have the possibility to send an "STM system speed" together with an "STM system distance" to the STM control function.		False	False	False	Unknown		
17.2.2.7.1	17.2.2.7.1 (FFFIS STM: 7.3.1.6.3.1) Note: This "STM system speed" together with the "STM system distance" is to allow the STM, to request a given train speed at a given position ("STM system distance") before the level transition border in order to be able to detect its national trackside.		False	False	False	Unknown		
17.2.2.8	17.2.2.8 (FFFIS STM: 7.4.2.2.4) When receiving an "STM system speed" together with an "STM system distance" from an STM in HS state, the ETCS On-board shall consider the "STM system		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	speed" as a new speed restriction that applies at a location "STM system distance" before the level transition border and ending at the level transition border: The ETCS On-board shall include the "STM system speed" into the computation of the MRSP.							
17.2.2.9	17.2.2.9 (FFFIS STM: 7.4.2.2.5) If the ETCS On-board does not receive the "STM system speed" together with the "STM system distance" values from the STM in HS state, the ETCS On-board shall not take into account "STM system speed" and "STM system distance" at all and the computation of the MRSP is not affected.		False	False	False	Unknown		
17.2.2.10	17.2.2.10 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.2.2.10.0-1	When a connection is established		False	False	False	Unknown		
17.2.2.10.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.2.2.11	17.2.2.11 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.2.2.11.0-1	When a connection is established		False	False	False	Unknown		
17.2.2.11.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.2.2.12	17.2.2.12 (FFFIS STM: 10.5.3.3) The STM in Hot Standby shall be allowed to send preliminary request for DMI objects to the ETCS On-board.		False	False	False	Unknown		
17.2.2.13	17.2.2.13 (FFFIS STM: 10.5.2.6) The ETCS On-board shall be able to receive preliminary request for DMI objects from an STM being in HS state. The ETCS On-board shall be allowed		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	to ignore this information.							
17.2.2.14	17.2.2.14 (FFFIS STM: 10.5.2.6.1) Note: The sending of preliminary request is to allow the DMI function to prepare in background the information to be presented to the driver once the STM switches to Data Available state.		False	False	False	Unknown		
17.2.2.15	17.2.2.15 (FFFIS STM: 10.5.2.6.2) Note: This is to avoid a gap of the display at level transition and to have a one shot up-date of the screen to display STM information at level transition.		False	False	False	Unknown		
17.2.3	17.2.3 Requirements for the transition		False	False	False	Unknown		
17.2.3.1	17.2.3.1 (SRS: 5.10.1.4) At the level transition border a balise group with an order to switch to the new level immediately shall be placed.		False	False	False	Unknown		
17.2.3.2	17.2.3.2 (SRS: 5.10.1.5) If the message from the border balise group is not received, the level transition shall still be executed when the estimated front end passes the location given in the announcement.		False	False	False	Unknown		
17.2.3.3	17.2.3.3 (SRS: 4.6.3) Transitions Conditions Table:		False	False	False	Unknown		
17.2.3.3.0-1.0-1.0-1	[55]		False	True	False	Unknown		
17.2.3.3.0-1.0-1.0-2	(the ERTMS/ETCS level is "STM") AND (SE mode is required for the STM)		False	True	False	Unknown		
17.2.3.3.0-1.0-2.0-1	[56]		False	True	False	Unknown		
17.2.3.3.0-1.0-2.0-2	(the ERTMS/ETCS level is "STM") AND (SN mode is required for the STM)		False	True	False	Unknown		
17.2.3.3.1	17.2.3.3.1 (SRS: 4.6.2) Transition Table.		False	False	False	Unknown		
17.2.3.3.1.0-1	Mode transition [55] from FS, SR, OS, and UN to SE		False	False	False	Unknown		
17.2.3.3.1.0-2	Mode transition [56] from FS, SR, OS, and UN to SN		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.4	17.2.3.4 (SRS: 5.10.3.9.3 (Level 1)) When the level transition location is passed with the estimated front end, the STM specified shall be activated by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.2.3.5	17.2.3.5 (SRS: 5.10.3.10.5 (Level 2/3), 5.10.3.13.2 (Level 0)) When the level transition location is passed the STM specified shall be activated.		False	False	False	Unknown		
17.2.3.6	17.2.3.6 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.2.3.6.0-1.0-1.0-1	A9		False	True	False	Unknown		
17.2.3.6.0-1.0-1.0-2	(Level transition location for a transition from ETCS to STM is passed) AND (ETCS technical mode is not TR)		False	True	False	Unknown		
17.2.3.6.1	17.2.3.6.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.2.3.6.1.0-1	STM state order for DA		False	False	False	Unknown		
17.2.3.7	17.2.3.7 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.2.3.8	17.2.3.8 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.2.3.8.0-1.0-1.0-1	D16		False	True	False	Unknown		
17.2.3.8.0-1.0-1.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2		False	True	False	Unknown		
17.2.3.8.1	17.2.3.8.1 (FFFIS STM: 7.4.1.2.2) STM state		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	order table (ETCS On-board STM Control Function)							
17.2.3.8.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.2.3.9	17.2.3.9 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.		False	False	False	Unknown		
17.2.3.10	17.2.3.10 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.2.3.10.0-1	When a connection is established		False	False	False	Unknown		
17.2.3.10.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.2.3.11	17.2.3.11 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.2.3.11.0-1	When a connection is established		False	False	False	Unknown		
17.2.3.11.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.2.3.12	17.2.3.12 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.2.3.12.0-1.0-1	9		False	True	False	Unknown		
17.2.3.12.0-1.0-1.0-2	ETCS order "Data Available"		False	True	False	Unknown		
17.2.3.12.1	17.2.3.12.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.2.3.12.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.2.3.13	17.2.3.13 (FFFIS STM: 7.3.4.4) The STM shall		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	report its current state to any ETCS Function							
17.2.3.13.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.2.3.13.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.2.3.14	17.2.3.14 (FFFIS STM: 7.3.1.7.1) In DA state, a National STM is responsible for the train movement supervision, according to the received national trackside information. A European STM is also responsible for the train movement supervision, according to the received national trackside information, but some parts of the calculations are performed by the ETCS On-board.		False	False	False	Unknown		
17.2.3.15	17.2.3.15 (SRS: 4.4.17.1.1) The SN mode shall enable an STM to access the following resources via the ERTMS/ETCS on-board equipment; MMI, odometer, train interface and brakes. No supervision functionality is provided by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.2.3.16	17.2.3.16 (SRS: 4.4.16.1.1) The SE mode shall permit reuse of supervision functionality in the ERTMS/ETCS on-board equipment such as MA, most restrictive speed profile and gradient. Furthermore, the SE mode shall enable the STM to access the following resources via the ERTMS/ETCS Onboard; MMI, odometer, train interface and brakes.		False	False	False	Unknown		
17.2.3.17	17.2.3.17 (FFFIS STM: 5.2.5.5) The STM shall be allowed to apply the emergency brake using the direct interface only when the STM is active (in state "Data Available") and the ETCS technical mode is SN or SE.		False	False	False	Unknown		
17.2.3.18	17.2.3.18 (FFFIS STM: 5.2.5.7) The STM shall be allowed to apply the traction cut-off using the direct interface only when the emergency brake application is allowed over the direct interface (see chapter 5.2.5.5).		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19	17.2.3.19 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.2.3.19.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.2.3.19.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.2.3.19.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-1	No.		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-3	17.2.3.19.0-3.0-1.0-2.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-14	17.2.3.19.0-3.0-1.0-2.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-2.0-15	17.2.3.19.0-3.0-1.0-2.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-3	17.2.3.19.0-3.0-1.0-3.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-14	17.2.3.19.0-3.0-1.0-3.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-3.0-15	17.2.3.19.0-3.0-1.0-3.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-3	17.2.3.19.0-3.0-1.0-4.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-4.0-4	17.2.3.19.0-3.0-1.0-4.0-4		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-5	17.2.3.19.0-3.0-1.0-4.0-5		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-6	17.2.3.19.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-7	17.2.3.19.0-3.0-1.0-4.0-7		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-8	17.2.3.19.0-3.0-1.0-4.0-8		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-9	17.2.3.19.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-10	17.2.3.19.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-11	17.2.3.19.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-12	17.2.3.19.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-13	17.2.3.19.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-14	17.2.3.19.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-15	17.2.3.19.0-3.0-1.0-4.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-17	17.2.3.19.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-4.0-18	17.2.3.19.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-3	17.2.3.19.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-4	17.2.3.19.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-5	17.2.3.19.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-6	17.2.3.19.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-7	17.2.3.19.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-8	17.2.3.19.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-9	17.2.3.19.0-3.0-1.0-5.0-9		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-11	17.2.3.19.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-12	17.2.3.19.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-13	17.2.3.19.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-14	17.2.3.19.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-15	17.2.3.19.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-5.0-18	17.2.3.19.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-3	17.2.3.19.0-3.0-1.0-6.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-5	17.2.3.19.0-3.0-1.0-6.0-5		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-9	17.2.3.19.0-3.0-1.0-6.0-9		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-14	17.2.3.19.0-3.0-1.0-6.0-14		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-15	17.2.3.19.0-3.0-1.0-6.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-3	17.2.3.19.0-3.0-1.0-7.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-15	17.2.3.19.0-3.0-1.0-7.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-3	17.2.3.19.0-3.0-1.0-8.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-15	17.2.3.19.0-3.0-1.0-8.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-3	17.2.3.19.0-3.0-1.0-9.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-14	17.2.3.19.0-3.0-1.0-9.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-9.0-15	17.2.3.19.0-3.0-1.0-9.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-3	17.2.3.19.0-3.0-1.0-10.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-10.0-4	17.2.3.19.0-3.0-1.0-10.0-4		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-5	17.2.3.19.0-3.0-1.0-10.0-5		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-6	17.2.3.19.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-7	17.2.3.19.0-3.0-1.0-10.0-7		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-8	17.2.3.19.0-3.0-1.0-10.0-8		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-11	17.2.3.19.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-12	17.2.3.19.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-13	17.2.3.19.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-14	17.2.3.19.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-15	17.2.3.19.0-3.0-1.0-10.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-10.0-18	17.2.3.19.0-3.0-1.0-10.0-18		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-3	17.2.3.19.0-3.0-1.0-11.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-14	17.2.3.19.0-3.0-1.0-11.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-11.0-15	17.2.3.19.0-3.0-1.0-11.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-3	17.2.3.19.0-3.0-1.0-12.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-12.0-4	17.2.3.19.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-5	17.2.3.19.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-6	17.2.3.19.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-7	17.2.3.19.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-8	17.2.3.19.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-9	17.2.3.19.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-10	17.2.3.19.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-11	17.2.3.19.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-12	17.2.3.19.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-13	17.2.3.19.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-14	17.2.3.19.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-15	17.2.3.19.0-3.0-1.0-12.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-12.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-12.0-18	17.2.3.19.0-3.0-1.0-12.0-18		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-3	17.2.3.19.0-3.0-1.0-13.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-14	17.2.3.19.0-3.0-1.0-13.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-13.0-15	17.2.3.19.0-3.0-1.0-13.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-13.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-3	17.2.3.19.0-3.0-1.0-14.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-14.0-4	17.2.3.19.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-5	17.2.3.19.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-6	17.2.3.19.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-7	17.2.3.19.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-8	17.2.3.19.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-9	17.2.3.19.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-10	17.2.3.19.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-11	17.2.3.19.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-12	17.2.3.19.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-13	17.2.3.19.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-14	17.2.3.19.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-15	17.2.3.19.0-3.0-1.0-14.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-14.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-14.0-18	17.2.3.19.0-3.0-1.0-14.0-18		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-3	17.2.3.19.0-3.0-1.0-15.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.2.3.19.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-14	17.2.3.19.0-3.0-1.0-15.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-15.0-15	17.2.3.19.0-3.0-1.0-15.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.2.3.19.0-3.0-1.0-15.0-16	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.2.3.19.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.2.3.20	17.2.3.20 (SRS: 5.10.4.2) If the driver has not yet acknowledged 5 seconds after the level transition, a service brake command shall be initiated.		False	False	False	Unknown		
17.2.3.21	17.2.3.21 (SRS: 5.10.4.3) The driver shall then acknowledge the level transition in order to release the service brake command.		False	False	False	Unknown		
17.2.3.22	17.2.3.22 (FFFIS STM: 7.4.2.3.1) Once the train has passed the level transition border, the ETCS On-board shall supervise the "STM max		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	speed" (previously sent by the STM in HS state).							
17.2.3.23	17.2.3.23 (FFFIS STM: 7.4.2.3.2) Once the STM report "DA state" is received by the ETCS On-board, the ETCS On-board shall stop supervising "STM max speed".		False	False	False	Unknown		
17.2.3.24	17.2.3.24 (FFFIS STM: 7.4.2.2.3) If the ETCS On-board does not receive an "STM max speed" value from the STM in HS state, the ETCS On-board shall not supervise any "STM max speed" at all and the computation of the MRSP is not affected.		False	False	False	Unknown		
17.2.3.25	17.2.3.25 (FFFIS STM: 10.5.3.5) The STM shall send a request with the required status of all DMI objects to the ETCS On-board after switching from CS or HS to DA state.		False	False	False	Unknown		
17.3	17.3 Transition ETCS to STM (trip situation)		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
17.3.1	17.3.1 Requirements for the announcement of the transition		False	False	False	Unknown		
17.3.1.1	17.3.1.1 See chapter 17.2.1.		False	False	False	Unknown		
17.3.2	17.3.2 Requirements for the area between announcement and transition border		False	False	False	Unknown		
17.3.2.1	17.3.2.1 (SRS: 5.10.4.1) If defined so for the level transition (see table below), the driver shall be asked to acknowledge the transition when the max safe front end of the train passes a trackside defined location in rear of the level transition border.		False	False	False	Unknown		
17.3.2.1.0-1	Note: The table which is referenced in 17.3.2.1 (SRS) is not included here. The table gives the requirement to have an acknowledgement from the driver for every level transition to Level STM.		False	False	False	Unknown		
17.3.2.2	17.3.2.2 (FFFIS STM: 7.3.1.6.2) The STM in HS shall have the possibility to send a "STM max		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	speed" to the STM control function.							
17.3.2.2.1	17.3.2.2.1 (FFFIS STM: 7.3.1.6.2.1) Note: This "STM max speed" is to allow the STM, for national reasons unknown to the ETCS On-board or ERTMS Trackside, to request a given train speed at the level transition border in order to have a smooth transition.		False	False	False	Unknown		
17.3.2.3	17.3.2.3 (FFFIS STM: 7.4.2.2.1) If receiving an "STM max speed" from an STM in HS state, the ETCS On-board shall include the "STM max speed" into the computation of the MRSP beginning at the level transition border and ending when the report "DA state" has been received by the ETCS On-board from the STM to be activated.		False	False	False	Unknown		
17.3.2.4	17.3.2.4 (FFFIS STM: 7.4.2.2.2) If the STM reports FA state, or is identified by the ETCS On-board as failed, then the ETCS On-board shall consider that STM max speed = 0.		False	False	False	Unknown		
17.3.2.5	17.3.2.5 (FFFIS STM: 7.4.2.2.2.1) Note: The purpose of the above requirement is to try to prevent the train to enter in an STM area while this STM is failed.		False	False	False	Unknown		
17.3.2.6	17.3.2.6 (FFFIS STM: 7.4.2.2.3) If the ETCS On-board does not receive an "STM max speed" value from the STM in HS state, the ETCS On-board shall not supervise any "STM max speed" at all and the computation of the MRSP is not affected.		False	False	False	Unknown		
17.3.2.7	17.3.2.7 (FFFIS STM: 7.3.1.6.3) The STM in HS shall have the possibility to send an "STM system speed" together with an "STM system distance" to the STM control function.		False	False	False	Unknown		
17.3.2.7.1	17.3.2.7.1 (FFFIS STM: 7.3.1.6.3.1) Note: This "STM system speed" together with the "STM system distance" is to allow the STM, to request a given train speed at a given position ("STM system distance") before the level		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	transition border in order to be able to detect its national trackside.							
17.3.2.8	17.3.2.8 (FFFIS STM: 7.4.2.2.4) When receiving an "STM system speed" together with an "STM system distance" from an STM in HS state, the ETCS On-board shall consider the "STM system speed" as a new speed restriction that applies at a location "STM system distance" before the level transition border and ending at the level transition border: The ETCS On-board shall include the "STM system speed" into the computation of the MRSP.		False	False	False	Unknown		
17.3.2.9	17.3.2.9 (FFFIS STM: 7.4.2.2.5) If the ETCS On-board does not receive the "STM system speed" together with the "STM system distance" values from the STM in HS state, the ETCS On-board shall not take into account "STM system speed" and "STM system distance" at all and the computation of the MRSP is not affected.		False	False	False	Unknown		
17.3.2.10	17.3.2.10 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.3.2.10.0-1	When a connection is established		False	False	False	Unknown		
17.3.2.10.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.3.2.11	17.3.2.11 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.3.2.11.0-1	When a connection is established		False	False	False	Unknown		
17.3.2.11.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.3.2.12	17.3.2.12 (FFFIS STM: 10.5.3.3) The STM in Hot		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Standby shall be allowed to send preliminary request for DMI objects to the ETCS On-board.							
17.3.2.13	17.3.2.13 (FFFIS STM: 10.5.2.6) The ETCS On-board shall be able to receive preliminary request for DMI objects from an STM being in HS state. The ETCS On-board shall be allowed to ignore this information.		False	False	False	Unknown		
17.3.2.14	17.3.2.14 (FFFIS STM: 10.5.2.6.1) Note: The sending of preliminary request is to allow the DMI function to prepare in background the information to be presented to the driver once the STM switches to Data Available state.		False	False	False	Unknown		
17.3.2.15	17.3.2.15 (FFFIS STM: 10.5.2.6.2) Note: This is to avoid a gap of the display at level transition and to have a one shot up-date of the screen to display STM information at level transition.		False	False	False	Unknown		
17.3.2.16	17.3.2.16 (SRS: 4.6.3) Transitions Conditions Table:		False	False	False	Unknown		
17.3.2.16.0-1.0-1.0-1	[16]		False	True	False	Unknown		
17.3.2.16.0-1.0-1.0-2	The train/engine overpasses the EOA/LOA of its MA.		False	True	False	Unknown		
17.3.2.16.0-1.0-2.0-1	[17]		False	True	False	Unknown		
17.3.2.16.0-1.0-2.0-2	The onboard reacts according to a linking reaction set to "trip".		False	True	False	Unknown		
17.3.2.16.0-1.0-3.0-1	17.3.2.16.0-1.0-3.0-1		False	True	False	Unknown		
17.3.2.16.0-1.0-3.0-2	Other		False	True	False	Unknown		
17.3.2.16.1	17.3.2.16.1 (SRS: 4.6.2) Transition Table.		False	False	False	Unknown		
17.3.2.16.1.0-1	Mode transition [16] from FS, and OS to TR		False	False	False	Unknown		
17.3.2.16.1.0-2	Mode transition [17] from FS, and OS to TR		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.3.2.16.1.0-3	Other mode transitions to TR		False	False	False	Unknown		
17.3.3	17.3.3 Requirements for the transition		False	False	False	Unknown		
17.3.3.1	17.3.3.1 (SRS: 5.10.1.4) At the level transition border a balise group with an order to switch to the new level immediately shall be placed.		False	False	False	Unknown		
17.3.3.2	17.3.3.2 (SRS: 5.10.1.5) If the message from the border balise group is not received, the level transition shall still be executed when the estimated front end passes the location given in the announcement.		False	False	False	Unknown		
17.3.3.3	17.3.3.3 (SRS: 4.6.3) Transitions Conditions Table:		False	False	False	Unknown		
17.3.3.3.0-1.0-1.0-1	[63]		False	True	False	Unknown		
17.3.3.3.0-1.0-1.0-2	(the driver acknowledges the train trip) AND (the train is at standstill) AND (the ERTMS/ETCS level is STM) AND (STM is National)		False	True	False	Unknown		
17.3.3.3.0-1.0-2.0-1	[64]		False	True	False	Unknown		
17.3.3.3.0-1.0-2.0-2	(the driver acknowledges the train trip) AND (the train is at standstill) AND (the ERTMS/ETCS level is STM) AND (STM is European)		False	True	False	Unknown		
17.3.3.3.1	17.3.3.3.1 (SRS: 4.6.2) Transition Table.		False	False	False	Unknown		
17.3.3.3.1.0-1	Mode transition [63] from TR to SN		False	False	False	Unknown		
17.3.3.3.1.0-2	Mode transition [64] from TR to SE		False	False	False	Unknown		
17.3.3.4	17.3.3.4 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.3.3.4.0-1.0-1.0-1	B9		False	True	False	Unknown		
17.3.3.4.0-	(Level transition location for a transition from		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-2	ETCS to STM is passed) AND (ETCS technical mode changes from TR to SN or SE)							
17.3.3.4.0-1.0-2.0-1	F9		False	True	False	Unknown		
17.3.3.4.0-1.0-2.0-2	(transition ordered by the trackside) AND (no announcement for the level transition was received by the ETCS On-board)		False	True	False	Unknown		
17.3.3.4.1	17.3.3.4.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.3.3.4.1.0-1	STM state order for DA		False	False	False	Unknown		
17.3.3.5	17.3.3.5 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.3.3.6	17.3.3.6 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.3.3.6.0-1.0-1.0-1	D16		False	True	False	Unknown		
17.3.3.6.0-1.0-1.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2		False	True	False	Unknown		
17.3.3.6.1	17.3.3.6.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.3.3.6.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.3.3.7	17.3.3.7 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.3.3.8	17.3.3.8 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.3.3.8.0-1	When a connection is established		False	False	False	Unknown		
17.3.3.8.0-2	Whenever a TIU status / availability changes.f		False	False	False	Unknown		
17.3.3.9	17.3.3.9 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.3.3.9.0-1	When a connection is established		False	False	False	Unknown		
17.3.3.9.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.3.3.10	17.3.3.10 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.3.3.10.0-1.0-1.0-1	9		False	False	False	Unknown		
17.3.3.10.0-1.0-1.0-2	ETCS order "Data Available"		False	True	False	Unknown		
17.3.3.10.1	17.3.3.10.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.3.3.10.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.3.3.11	17.3.3.11 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.3.3.11.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.3.3.11.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.3.3.12	17.3.3.12 (FFFIS STM: 7.3.1.7.1) In DA state, a National STM is responsible for the train movement supervision, according to the received national trackside information. A		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	European STM is also responsible for the train movement supervision, according to the received national trackside information, but some parts of the calculations are performed by the ETCS On-board.							
17.3.3.13	17.3.3.13 (SRS: 4.4.17.1.1) The SN mode shall enable an STM to access the following resources via the ERTMS/ETCS on-board equipment; MMI, odometer, train interface and brakes. No supervision functionality is provided by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.3.3.14	17.3.3.14 (SRS: 4.4.16.1.1) The SE mode shall permit reuse of supervision functionality in the ERTMS/ETCS on-board equipment such as MA, most restrictive speed profile and gradient. Furthermore, the SE mode shall enable the STM to access the following resources via the ERTMS/ETCS Onboard; MMI, odometer, train interface and brakes.		False	False	False	Unknown		
17.3.3.15	17.3.3.15 (FFFIS STM: 5.2.5.5) The STM shall be allowed to apply the emergency brake using the direct interface only when the STM is active (in state "Data Available") and the ETCS technical mode is SN or SE.		False	False	False	Unknown		
17.3.3.16	17.3.3.16 LANCEMENT DU TESTEUR		False	False	False	Unknown		
17.3.3.17	17.3.3.17 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.3.3.17.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.3.3.17.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.3.3.17.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-	No.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.3.3.17.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-3	NP		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-4	SB		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-5	SH		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-6	FS		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-7	SR		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-8	OS		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-9	SL		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-10	NL		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-11	UN		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-12	TR		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-	PT		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.3.3.17.0-3.0-1.0-1.0-14	SF		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-15	IS		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-16	SE		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-17	SN		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-1.0-18	RV		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-1	1		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-2	STM Control Function		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-3	17.3.3.17.0-3.0-1.0-2.0-3		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
17.3.3.17.0-3.0-1.0-2.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-5	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.3.3.17.0-3.0-1.0-2.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-9	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-13	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-14	17.3.3.17.0-3.0-1.0-2.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-15	17.3.3.17.0-3.0-1.0-2.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-16	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-2.0-18	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-	2		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.3.3.17.0-3.0-1.0-3.0-2	Reference Clock		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-3	17.3.3.17.0-3.0-1.0-3.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-5	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-7	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-9	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.3.3.17.0-3.0-1.0-3.0-14	17.3.3.17.0-3.0-1.0-3.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-15	17.3.3.17.0-3.0-1.0-3.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-16	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-3.0-18	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-1	3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-2	European Supervision		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-3	17.3.3.17.0-3.0-1.0-4.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-4	17.3.3.17.0-3.0-1.0-4.0-4		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-5	17.3.3.17.0-3.0-1.0-4.0-5		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-6	17.3.3.17.0-3.0-1.0-4.0-6		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-7	17.3.3.17.0-3.0-1.0-4.0-7		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.3.3.17.0-3.0-1.0-4.0-8	17.3.3.17.0-3.0-1.0-4.0-8		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-9	17.3.3.17.0-3.0-1.0-4.0-9		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-10	17.3.3.17.0-3.0-1.0-4.0-10		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-11	17.3.3.17.0-3.0-1.0-4.0-11		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-12	17.3.3.17.0-3.0-1.0-4.0-12		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-13	17.3.3.17.0-3.0-1.0-4.0-13		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-14	17.3.3.17.0-3.0-1.0-4.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-15	17.3.3.17.0-3.0-1.0-4.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-16	s		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-17	17.3.3.17.0-3.0-1.0-4.0-17		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-4.0-18	17.3.3.17.0-3.0-1.0-4.0-18		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0	4		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.3.3.17.0-3.0-1.0-5.0-2	DMI		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-3	17.3.3.17.0-3.0-1.0-5.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-4	17.3.3.17.0-3.0-1.0-5.0-4		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-5	17.3.3.17.0-3.0-1.0-5.0-5		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-6	17.3.3.17.0-3.0-1.0-5.0-6		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-7	17.3.3.17.0-3.0-1.0-5.0-7		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-8	17.3.3.17.0-3.0-1.0-5.0-8		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-9	17.3.3.17.0-3.0-1.0-5.0-9		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-10	s		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-11	17.3.3.17.0-3.0-1.0-5.0-11		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-12	17.3.3.17.0-3.0-1.0-5.0-12		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-13	17.3.3.17.0-3.0-1.0-5.0-13		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.3.3.17.0-3.0-1.0-5.0-14	17.3.3.17.0-3.0-1.0-5.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-15	17.3.3.17.0-3.0-1.0-5.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-16	s		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-17	s		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-5.0-18	17.3.3.17.0-3.0-1.0-5.0-18		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-1	5		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-3	17.3.3.17.0-3.0-1.0-6.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-5	17.3.3.17.0-3.0-1.0-6.0-5		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.3.3.17.0-3.0-1.0-6.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-9	17.3.3.17.0-3.0-1.0-6.0-9		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-13	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-14	17.3.3.17.0-3.0-1.0-6.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-15	17.3.3.17.0-3.0-1.0-6.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-16	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-6.0-18	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0	6		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.3.3.17.0-3.0-1.0-7.0-2	JRU		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-3	17.3.3.17.0-3.0-1.0-7.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-5	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-7	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-9	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.3.3.17.0-3.0-1.0-7.0-14	(x)		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-15	17.3.3.17.0-3.0-1.0-7.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-16	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-7.0-18	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-1	7		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-2	DRU		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-3	17.3.3.17.0-3.0-1.0-8.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-5	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.3.3.17.0-3.0-1.0-8.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-9	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-13	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-14	(x)		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-15	17.3.3.17.0-3.0-1.0-8.0-15		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
17.3.3.17.0-3.0-1.0-8.0-16	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-8.0-18	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0	8		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.3.3.17.0-3.0-1.0-9.0-2	Odometer		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-3	17.3.3.17.0-3.0-1.0-9.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-5	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-7	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-9	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.3.3.17.0-3.0-1.0-9.0-14	17.3.3.17.0-3.0-1.0-9.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-15	17.3.3.17.0-3.0-1.0-9.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-16	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-9.0-18	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-1	9		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-3	17.3.3.17.0-3.0-1.0-10.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-4	17.3.3.17.0-3.0-1.0-10.0-4		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-5	17.3.3.17.0-3.0-1.0-10.0-5		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-6	17.3.3.17.0-3.0-1.0-10.0-6		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	17.3.3.17.0-3.0-1.0-10.0-7		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-7								
17.3.3.17.0-3.0-1.0-10.0-8	17.3.3.17.0-3.0-1.0-10.0-8		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-9	s		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-10	s		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-11	17.3.3.17.0-3.0-1.0-10.0-11		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-12	17.3.3.17.0-3.0-1.0-10.0-12		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-13	17.3.3.17.0-3.0-1.0-10.0-13		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-14	17.3.3.17.0-3.0-1.0-10.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-15	17.3.3.17.0-3.0-1.0-10.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-16	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-10.0-18	17.3.3.17.0-3.0-1.0-10.0-18		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	10		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-1								
17.3.3.17.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-3	17.3.3.17.0-3.0-1.0-11.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-5	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-7	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-9	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-13								
17.3.3.17.0-3.0-1.0-11.0-14	17.3.3.17.0-3.0-1.0-11.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-15	17.3.3.17.0-3.0-1.0-11.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-16	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-11.0-18	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-1	11		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-2	Emergency Brake command		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-3	17.3.3.17.0-3.0-1.0-12.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-4	17.3.3.17.0-3.0-1.0-12.0-4		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-5	17.3.3.17.0-3.0-1.0-12.0-5		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-6	17.3.3.17.0-3.0-1.0-12.0-6		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	17.3.3.17.0-3.0-1.0-12.0-7		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-7								
17.3.3.17.0-3.0-1.0-12.0-8	17.3.3.17.0-3.0-1.0-12.0-8		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-9	17.3.3.17.0-3.0-1.0-12.0-9		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-10	17.3.3.17.0-3.0-1.0-12.0-10		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-11	17.3.3.17.0-3.0-1.0-12.0-11		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-12	17.3.3.17.0-3.0-1.0-12.0-12		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-13	17.3.3.17.0-3.0-1.0-12.0-13		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-14	17.3.3.17.0-3.0-1.0-12.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-15	17.3.3.17.0-3.0-1.0-12.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-16	X		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-12.0-18	17.3.3.17.0-3.0-1.0-12.0-18		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	12		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-1								
17.3.3.17.0-3.0-1.0-13.0-2	Emergency Brake status		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-3	17.3.3.17.0-3.0-1.0-13.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-5	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-7	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-9	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-13								
17.3.3.17.0-3.0-1.0-13.0-14	17.3.3.17.0-3.0-1.0-13.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-15	17.3.3.17.0-3.0-1.0-13.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-16	X		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-13.0-18	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-1	13		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-2	Service Brake command		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-3	17.3.3.17.0-3.0-1.0-14.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-4	17.3.3.17.0-3.0-1.0-14.0-4		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-5	17.3.3.17.0-3.0-1.0-14.0-5		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-6	17.3.3.17.0-3.0-1.0-14.0-6		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	17.3.3.17.0-3.0-1.0-14.0-7		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-7								
17.3.3.17.0-3.0-1.0-14.0-8	17.3.3.17.0-3.0-1.0-14.0-8		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-9	17.3.3.17.0-3.0-1.0-14.0-9		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-10	17.3.3.17.0-3.0-1.0-14.0-10		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-11	17.3.3.17.0-3.0-1.0-14.0-11		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-12	17.3.3.17.0-3.0-1.0-14.0-12		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-13	17.3.3.17.0-3.0-1.0-14.0-13		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-14	17.3.3.17.0-3.0-1.0-14.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-15	17.3.3.17.0-3.0-1.0-14.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-16	X		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-14.0-18	17.3.3.17.0-3.0-1.0-14.0-18		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	14		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-1								
17.3.3.17.0-3.0-1.0-15.0-2	Service Brake status		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-3	17.3.3.17.0-3.0-1.0-15.0-3		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-4	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-5	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-6	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-7	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-8	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-9	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-10	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-11	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-12	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-	x		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-13								
17.3.3.17.0-3.0-1.0-15.0-14	17.3.3.17.0-3.0-1.0-15.0-14		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-15	17.3.3.17.0-3.0-1.0-15.0-15		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-16	X		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-17	x		False	False	False	Unknown		
17.3.3.17.0-3.0-1.0-15.0-18	x		False	False	False	Unknown		
17.3.3.18	17.3.3.18 (SRS: 5.10.4.2) If the driver has not yet acknowledged 5 seconds after the level transition, a service brake command shall be initiated.		False	False	False	Unknown		
17.3.3.19	17.3.3.19 (SRS: 5.10.4.3) The driver shall then acknowledge the level transition in order to release the service brake command.		False	False	False	Unknown		
17.3.3.20	17.3.3.20 (FFFIS STM: 7.4.2.3.1) Once the train has passed the level transition border, the ETCS On-board shall supervise the "STM max speed" (previously sent by the STM in HS state).		False	False	False	Unknown		
17.3.3.21	17.3.3.21 (FFFIS STM: 7.4.2.3.2) Once the STM report "DA state" is received by the ETCS On-board, the ETCS On-board shall stop supervising "STM max speed".		False	False	False	Unknown		
17.3.3.22	17.3.3.22 (FFFIS STM: 7.4.2.2.3) If the ETCS On-board does not receive an "STM max speed" value from the STM in HS state, the ETCS On-board shall not supervise any "STM max speed" at all and the computation of the		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	MRSP is not affected.							
17.3.3.23	17.3.3.23 (FFFIS STM: 10.5.3.5) The STM shall send a request with the required status of all DMI objects to the ETCS On-board after switching from CS or HS to DA state.		False	False	False	Unknown		
17.4	17.4 Transition ETCS to STM (non-leading / sleeping)		False	False	False	Unknown		
17.4.1	17.4.1 Requirements for the announcement of the transition		False	False	False	Unknown		
17.4.1.1	17.4.1.1 (SRS: 5.10.1.1) Every level transition into levels 2, 3, or STM shall be announced to the ERTMS/ETCS on-board equipment via balise group or via the RBC.		False	False	False	Unknown		
17.4.1.2	17.4.1.2 (SRS: 5.10.1.2) A level transition announcement to the ERTMS/ETCS on-board equipment shall consist of an order to execute the level transition at a further location corresponding to the border.		False	False	False	Unknown		
17.4.1.3	17.4.1.3 (SRS: 5.10.2.2) When going to a mixed level area, the level transition announcement and the level transition order at the border shall contain all the supported ERTMS/ETCS levels with a table of priority.		False	False	False	Unknown		
17.4.1.4	17.4.1.4 (SRS: 5.10.2.3) The table of priority shall list all the supported levels from the highest priority level to the lowest one.		False	False	False	Unknown		
17.4.1.4.1	17.4.1.4.1 (SRS: 5.10.2.3.1) Examples: table gives 3, 2, STM X, 1, STM Y, 0. Train is fitted for level 1 and STM X, it will select STM X level. Train is fitted for level 1 and STM Y, it will select level 1. Train is level 2 fitted, it will select level 2.		False	False	False	Unknown		
17.4.1.5	17.4.1.5 (SRS: 5.10.2.4) When receiving the information about all ERTMS/ETCS levels that are available, the ERTMS/ETCS on-board equipment shall select in the table the level with the highest priority that the onboard equipment		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	allows to use.							
17.4.1.6	17.4.1.6 (SRS: 5.10.2.7) If the ERTMS/ETCS on-board equipment is not fitted for any of the announced levels it shall nevertheless make the transition, to the announced level with the lowest priority.		False	False	False	Unknown		
17.4.1.7	17.4.1.7 (SRS: 5.10.1.3) When the ERTMS/ETCS on-board equipment receives a level transition announcement, it shall immediately inform the driver about the announced level transition.		False	False	False	Unknown		
17.4.1.8	17.4.1.8 (SRS: 5.10.2.6) The ERTMS/ETCS on-board equipment shall inform the driver only about the selected level transition.		False	False	False	Unknown		
17.4.1.9	17.4.1.9 (SRS: 4.7.2) MMI versus mode table (outputs).		False	False	False	Unknown		
17.4.1.9.0-1.0-1.0-1	Output information		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-2	NP		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-3	SB		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-4	SH		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-5	FS		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-6	SR		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-7	OS		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-8	SL		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-9	NL		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-10	UN		False	True	False	Unknown		
17.4.1.9.0-	TR		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-11								
17.4.1.9.0-1.0-1.0-12	PT		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-13	SF		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-14	IS		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-15	SE		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-16	SN		False	True	False	Unknown		
17.4.1.9.0-1.0-1.0-17	RV		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-1	Level transition announcement		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-2	17.4.1.9.0-1.0-2.0-2		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-3	17.4.1.9.0-1.0-2.0-3		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-4	17.4.1.9.0-1.0-2.0-4		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-5	A		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-6	A		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-7	A		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-8	17.4.1.9.0-1.0-2.0-8		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-9	A		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-10	A		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-11	A		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.4.1.9.0-1.0-2.0-12	A		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-13	17.4.1.9.0-1.0-2.0-13		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-14	17.4.1.9.0-1.0-2.0-14		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-15	A		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-16	A		False	True	False	Unknown		
17.4.1.9.0-1.0-2.0-17	A		False	True	False	Unknown		
17.4.1.10	17.4.1.10 (SRS: 5.10.1.7) As soon as the announcement of the level transition has been received, some data (mainly movement authority and track description data) from the transmission media of the new level shall be accepted, but shall not be used until the level transition is effective.		False	False	False	Unknown		
17.4.1.11	17.4.1.11 (SRS: 5.10.3.9.2, and 5.10.3.10.2) When the announcement is received, a signal shall be sent by the ERTMS/ETCS on-board equipment to the STM specified in the announcement meaning that the STM shall prepare for immediate activation when the level transition location is passed with the estimated front end.		False	False	False	Unknown		
17.4.1.12	17.4.1.12 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.4.1.12.0-1.0-1.0-1	A6		False	True	False	Unknown		
17.4.1.12.0-1.0-1.0-2	(ETCS On-board receives an announcement for a level transition to Level STM X) AND_(STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3		False	True	False	Unknown		
17.4.1.12.1	17.4.1.12.1 (FFFIS STM: 7.4.1.2.2) STM state		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	order table (ETCS On-board STM Control Function)							
17.4.1.12.1.0-1	STM state order for HS		False	False	False	Unknown		
17.4.1.13	17.4.1.13 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.4.1.14	17.4.1.14 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.4.1.14.0-1.0-1.0-1	C16		False	False	False	Unknown		
17.4.1.14.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.4.1.14.1	17.4.1.14.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.4.1.14.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.4.1.15	17.4.1.15 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.		False	False	False	Unknown		
17.4.1.16	17.4.1.16 (FFFIS STM: 7.6.1.5.1) Exception: If the ETCS technical mode is SL, the STM shall not open a connection to the ETCS DMI function.		False	False	False	Unknown		
17.4.1.17	17.4.1.17 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.4.1.17.0-1	When a connection is established		False	False	False	Unknown		
17.4.1.17.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.4.1.18	17.4.1.18 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.4.1.18.0-1	When a connection is established		False	False	False	Unknown		
17.4.1.18.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.4.1.19	17.4.1.19 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.4.1.19.0-1.0-1	6		False	False	False	Unknown		
17.4.1.19.0-1.0-1.0-2	ETCS order "Hot Standby"		False	True	False	Unknown		
17.4.1.19.1	17.4.1.19.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.4.1.19.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.4.1.20	17.4.1.20 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.4.1.20.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.4.1.20.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.4.1.21	17.4.1.21 (FFFIS STM: 7.3.1.6.1) Being in the state HS, the STM shall be able to process the information from or to the national trackside.		False	False	False	Unknown		
17.4.1.22	17.4.1.22 (FFFIS STM: 7.3.1.6.1.1) Note: In HS state, when receiving national trackside information, the STM shall treat this information to be prepared to take in charge the train movement supervision once its state will switch		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	to DA state.							
17.4.2	17.4.2 Requirements for the area between announcement and transition border		False	False	False	Unknown		
17.4.2.1	17.4.2.1 (FFFIS STM: 7.3.1.6.2) The STM in HS shall have the possibility to send a "STM max speed" to the STM control function.		False	False	False	Unknown		
17.4.2.2	17.4.2.2 (FFFIS STM: 7.3.1.6.3) The STM in HS shall have the possibility to send an "STM system speed" together with an "STM system distance" to the STM control function.		False	False	False	Unknown		
17.4.2.2.1	17.4.2.2.1 (SRS: 4.4.6.1.3 (Sleeping)) As the engine is remote controlled by the leading engine, its ERTMS/ETCS on-board equipment shall not perform any train movement supervision.		False	False	False	Unknown		
17.4.2.2.2	17.4.2.2.2 (SRS: 4.4.15.1.2 (Non-Leading)) The ERTMS/ETCS on-board equipment shall not perform any train movement supervision in Non-Leading mode.		False	False	False	Unknown		
17.4.2.3	17.4.2.3 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.4.2.3.0-1	When a connection is established		False	False	False	Unknown		
17.4.2.3.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.4.2.4	17.4.2.4 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.4.2.4.0-1	When a connection is established		False	False	False	Unknown		
17.4.2.4.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.4.2.5	17.4.2.5 (FFFIS STM: 10.5.3.3) The STM in Hot Standby shall be allowed to send preliminary		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	request for DMI objects to the ETCS On-board.							
17.4.2.6	17.4.2.6 (FFFIS STM: 10.5.2.6) The ETCS On-board shall be able to receive preliminary request for DMI objects from an STM being in HS state. The ETCS On-board shall be allowed to ignore this information.		False	False	False	Unknown		
17.4.2.7	17.4.2.7 (FFFIS STM: 10.5.2.6.1) Note: The sending of preliminary request is to allow the DMI function to prepare in background the information to be presented to the driver once the STM switches to Data Available state.		False	False	False	Unknown		
17.4.2.8	17.4.2.8 (FFFIS STM: 10.5.2.6.2) Note: This is to avoid a gap of the display at level transition and to have a one shot up-date of the screen to display STM information at level transition.		False	False	False	Unknown		
17.4.2.8.1	17.4.2.8.1 (SRS: 4.4.6.1.2 (Sleeping)) The desk of a sleeping engine must be closed (since there is no driver, no information shall be shown).		False	False	False	Unknown		
17.4.3	17.4.3 Requirements for the transition		False	False	False	Unknown		
17.4.3.1	17.4.3.1 (SRS: 5.10.1.4) At the level transition border a balise group with an order to switch to the new level immediately shall be placed.		False	False	False	Unknown		
17.4.3.2	17.4.3.2 (SRS: 5.10.1.5) If the message from the border balise group is not received, the level transition shall still be executed when the estimated front end passes the location given in the announcement.		False	False	False	Unknown		
17.4.3.3	17.4.3.3 (SRS: 5.10.3.9.3 (Level 1)) When the level transition location is passed with the estimated front end, the STM specified shall be activated by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.4.3.4	17.4.3.4 (SRS: 5.10.3.10.5 (Level 2/3), 5.10.3.13.2 (Level 0)) When the level transition location is passed the STM specified shall be		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	activated.							
17.4.3.5	17.4.3.5 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.4.3.5.0-1.0-1.0-1	A9		False	False	False	Unknown		
17.4.3.5.0-1.0-1.0-2	(Level transition location for a transition from ETCS to STM is passed) AND (ETCS technical mode is not TR)		False	True	False	Unknown		
17.4.3.5.1	17.4.3.5.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.4.3.5.1.0-1	STM state order for DA		False	False	False	Unknown		
17.4.3.6	17.4.3.6 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.4.3.7	17.4.3.7 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.4.3.7.0-1.0-1.0-1	D16		False	False	False	Unknown		
17.4.3.7.0-1.0-1.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2		False	True	False	Unknown		
17.4.3.7.1	17.4.3.7.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.4.3.7.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.4.3.8	17.4.3.8 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	functions.							
17.4.3.9	17.4.3.9 (FFFIS STM: 7.6.1.5.1) Exception: If the ETCS technical mode is SL, the STM shall not open a connection to the ETCS DMI function.		False	False	False	Unknown		
17.4.3.10	17.4.3.10 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.4.3.10.0-1	When a connection is established		False	False	False	Unknown		
17.4.3.10.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.4.3.11	17.4.3.11 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.4.3.11.0-1	When a connection is established		False	False	False	Unknown		
17.4.3.11.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.4.3.12	17.4.3.12 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.4.3.12.0-1.0-1.0-1	9		False	False	False	Unknown		
17.4.3.12.0-1.0-1.0-2	ETCS order "Data Available"		False	True	False	Unknown		
17.4.3.12.1	17.4.3.12.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.4.3.12.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.4.3.13	17.4.3.13 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.4.3.13.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.4.3.13.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.4.3.14	17.4.3.14 (FFFIS STM: 7.3.1.7.1) In DA state, a National STM is responsible for the train movement supervision, according to the received national trackside information. A European STM is also responsible for the train movement supervision, according to the received national trackside information, but some parts of the calculations are performed by the ETCS On-board.		False	False	False	Unknown		
17.4.3.15	17.4.3.15 (SRS: 4.4.6.1.9 (Sleeping)) When the ERTMS/ETCS level is STM, the ERTMS/ETCS Onboard equipment shall be responsible for providing the STM with access to various resources such as MMI, Odometer, Juridical Recorder and train interface.		False	False	False	Unknown		
17.4.3.16	17.4.3.16 (SRS: 4.4.15.1.7 (Non-Leading)) When the ERTMS/ETCS level is STM, the ERTMS/ETCS Onboard equipment shall be responsible for providing the STM with access to various resources such as MMI, Odometer, Juridical Recorder and train interface.		False	False	False	Unknown		
17.4.3.17	17.4.3.17 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.4.3.17.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.4.3.17.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.4.3.17.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-1	No.		False	False	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.4.3.17.0-	NP		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3.0-1.0-1.0-3								
17.4.3.17.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-	IS		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.4.3.17.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-3	17.4.3.17.0-3.0-1.0-2.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
9								
17.4.3.17.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-14	17.4.3.17.0-3.0-1.0-2.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-2.0-15	17.4.3.17.0-3.0-1.0-2.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-3	17.4.3.17.0-3.0-1.0-3.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.4.3.17.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-14	17.4.3.17.0-3.0-1.0-3.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-3.0-15	17.4.3.17.0-3.0-1.0-3.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.4.3.17.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-3	17.4.3.17.0-3.0-1.0-4.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-4.0-4	17.4.3.17.0-3.0-1.0-4.0-4		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-4.0-5	17.4.3.17.0-3.0-1.0-4.0-5		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-4.0-6	17.4.3.17.0-3.0-1.0-4.0-6		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-4.0-7	17.4.3.17.0-3.0-1.0-4.0-7		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-4.0-8	17.4.3.17.0-3.0-1.0-4.0-8		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-4.0-9	17.4.3.17.0-3.0-1.0-4.0-9		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
9								
17.4.3.17.0-3.0-1.0-4.0-10	17.4.3.17.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-11	17.4.3.17.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-12	17.4.3.17.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-13	17.4.3.17.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-14	17.4.3.17.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-15	17.4.3.17.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-17	17.4.3.17.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-4.0-18	17.4.3.17.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-3	17.4.3.17.0-3.0-1.0-5.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.4.3.17.0-3.0-1.0-5.0-4	17.4.3.17.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-5	17.4.3.17.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-6	17.4.3.17.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-7	17.4.3.17.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-8	17.4.3.17.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-9	17.4.3.17.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-11	17.4.3.17.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-12	17.4.3.17.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-13	17.4.3.17.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-14	17.4.3.17.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-15	17.4.3.17.0-3.0-1.0-5.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.4.3.17.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-5.0-18	17.4.3.17.0-3.0-1.0-5.0-18		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-3	17.4.3.17.0-3.0-1.0-6.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-5	17.4.3.17.0-3.0-1.0-6.0-5		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-9	17.4.3.17.0-3.0-1.0-6.0-9		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
9								
17.4.3.17.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-14	17.4.3.17.0-3.0-1.0-6.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-6.0-15	17.4.3.17.0-3.0-1.0-6.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-3	17.4.3.17.0-3.0-1.0-7.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.4.3.17.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-15	17.4.3.17.0-3.0-1.0-7.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.4.3.17.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-3	17.4.3.17.0-3.0-1.0-8.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
9								
17.4.3.17.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-15	17.4.3.17.0-3.0-1.0-8.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-3	17.4.3.17.0-3.0-1.0-9.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.4.3.17.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-14	17.4.3.17.0-3.0-1.0-9.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-9.0-15	17.4.3.17.0-3.0-1.0-9.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.4.3.17.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-3	17.4.3.17.0-3.0-1.0-10.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-10.0-4	17.4.3.17.0-3.0-1.0-10.0-4		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-10.0-5	17.4.3.17.0-3.0-1.0-10.0-5		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-10.0-6	17.4.3.17.0-3.0-1.0-10.0-6		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-10.0-7	17.4.3.17.0-3.0-1.0-10.0-7		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-10.0-8	17.4.3.17.0-3.0-1.0-10.0-8		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.4.3.17.0-3.0-1.0-	s		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-9								
17.4.3.17.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-11	17.4.3.17.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-12	17.4.3.17.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-13	17.4.3.17.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-14	17.4.3.17.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-15	17.4.3.17.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-10.0-18	17.4.3.17.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-	17.4.3.17.0-3.0-1.0-11.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-3								
17.4.3.17.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-14	17.4.3.17.0-3.0-1.0-11.0-14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-	17.4.3.17.0-3.0-1.0-11.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-15								
17.4.3.17.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-3	17.4.3.17.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-4	17.4.3.17.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-5	17.4.3.17.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-6	17.4.3.17.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-7	17.4.3.17.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-8	17.4.3.17.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-	17.4.3.17.0-3.0-1.0-12.0-9		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-9								
17.4.3.17.0-3.0-1.0-12.0-10	17.4.3.17.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-11	17.4.3.17.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-12	17.4.3.17.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-13	17.4.3.17.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-14	17.4.3.17.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-15	17.4.3.17.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-16	X		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-12.0-18	17.4.3.17.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-	17.4.3.17.0-3.0-1.0-13.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-3								
17.4.3.17.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-14	17.4.3.17.0-3.0-1.0-13.0-14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-	17.4.3.17.0-3.0-1.0-13.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-15								
17.4.3.17.0-3.0-1.0-13.0-16	X		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-3	17.4.3.17.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-4	17.4.3.17.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-5	17.4.3.17.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-6	17.4.3.17.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-7	17.4.3.17.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-8	17.4.3.17.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-	17.4.3.17.0-3.0-1.0-14.0-9		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-9								
17.4.3.17.0-3.0-1.0-14.0-10	17.4.3.17.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-11	17.4.3.17.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-12	17.4.3.17.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-13	17.4.3.17.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-14	17.4.3.17.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-15	17.4.3.17.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-16	X		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-14.0-18	17.4.3.17.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-	17.4.3.17.0-3.0-1.0-15.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-3								
17.4.3.17.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-14	17.4.3.17.0-3.0-1.0-15.0-14		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-	17.4.3.17.0-3.0-1.0-15.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-15								
17.4.3.17.0-3.0-1.0-15.0-16	X		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.4.3.17.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.4.3.18	17.4.3.18 (FFFIS STM: 10.5.3.5) The STM shall send a request with the required status of all DMI objects to the ETCS On-board after switching from CS or HS to DA state.		False	False	False	Unknown		
17.4.3.18.1	17.4.3.18.1 (SRS: 4.4.6.1.2 (Sleeping)) The desk of a sleeping engine must be closed (since there is no driver, no information shall be shown).		False	False	False	Unknown		
17.5	17.5 Transition STM to ETCS (except for non-leading / sleeping and trip situation)		False	False	False	Unknown		
17.5.1	17.5.1 Requirements for the announcement of the transition		False	False	False	Unknown		
17.5.1.1	17.5.1.1 (FFFIS STM: 7.5.1.1) For the train to be able to enter the new area, the previous STM area must possess information about at least the first section of the new area. The national trackside information may be transmitted to the train such that entry to the new area is possible only when the route status permits this.		False	False	False	Unknown		
17.5.1.2	17.5.1.2 (SRS: 5.10.1.1) Every level transition into levels 2, 3, or STM shall be announced to the ERTMS/ETCS on-board equipment via balise group or via the RBC.		False	False	False	Unknown		
17.5.1.3	17.5.1.3 (SRS: 5.10.1.2) A level transition announcement to the ERTMS/ETCS on-board equipment shall consist of an order to execute the level transition at a further location		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	corresponding to the border.							
17.5.1.4	17.5.1.4 (SRS: 5.10.2.2) When going to a mixed level area, the level transition announcement and the level transition order at the border shall contain all the supported ERTMS/ETCS levels with a table of priority.		False	False	False	Unknown		
17.5.1.5	17.5.1.5 (SRS: 5.10.2.3) The table of priority shall list all the supported levels from the highest priority level to the lowest one.		False	False	False	Unknown		
17.5.1.5.1	17.5.1.5.1 (SRS: 5.10.2.3.1) Examples: table gives 3, 2, STM X, 1, STM Y, 0. Train is fitted for level 1 and STM X, it will select STM X level. Train is fitted for level 1 and STM Y, it will select level 1. Train is level 2 fitted, it will select level 2.		False	False	False	Unknown		
17.5.1.6	17.5.1.6 (SRS: 5.10.2.4) When receiving the information about all ERTMS/ETCS levels that are available, the ERTMS/ETCS on-board equipment shall select in the table the level with the highest priority that the onboard equipment allows to use.		False	False	False	Unknown		
17.5.1.7	17.5.1.7 (SRS: 5.10.1.3) When the ERTMS/ETCS on-board equipment receives a level transition announcement, it shall immediately inform the driver about the announced level transition.		False	False	False	Unknown		
17.5.1.8	17.5.1.8 (SRS: 5.10.2.6) The ERTMS/ETCS on-board equipment shall inform the driver only about the selected level transition.		False	False	False	Unknown		
17.5.1.9	17.5.1.9 (SRS: 5.10.1.7) As soon as the announcement of the level transition has been received, some data (mainly movement authority and track description data) from the transmission media of the new level shall be accepted, but shall not be used until the level transition is effective.		False	False	False	Unknown		
17.5.2	17.5.2 Requirements for the area between announcement and transition border		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.5.2.1	17.5.2.1 (SRS: 5.10.4.1) If defined so for the level transition (see table below), the driver shall be asked to acknowledge the transition when the max safe front end of the train passes a trackside defined location in rear of the level transition border.		False	False	False	Unknown		
17.5.2.1.0-1	Note: The table which is referenced in 17.5.2.1 (SRS) is not included here. The table gives the requirement to have an acknowledgement from the driver for every level transition from Level STM.		False	False	False	Unknown		
17.5.3	17.5.3 Requirements for the transition		False	False	False	Unknown		
17.5.3.1	17.5.3.1 (SRS: 5.10.1.4) At the level transition border a balise group with an order to switch to the new level immediately shall be placed.		False	False	False	Unknown		
17.5.3.2	17.5.3.2 (SRS: 5.10.1.5) If the message from the border balise group is not received, the level transition shall still be executed when the estimated front end passes the location given in the announcement.		False	False	False	Unknown		
17.5.3.3	17.5.3.3 (SRS: 4.6.3) Transitions Conditions Table:		False	False	False	Unknown		
17.5.3.3.0-1.0-1.0-1	[21]		False	False	False	Unknown		
17.5.3.3.0-1.0-1.0-2	(ERTMS/ETCS level switches to 0) see {2} here under		False	True	False	Unknown		
17.5.3.3.0-1.0-2.0-1	[25]		False	True	False	Unknown		
17.5.3.3.0-1.0-2.0-2	(ERTMS/ETCS level switches to 1,2 or 3) AND (MA+SSP+gradient are on-board) AND (no specific mode is required by a Mode Profile)		False	True	False	Unknown		
17.5.3.3.0-1.0-3.0-1	[34]		False	True	False	Unknown		
17.5.3.3.0-1.0-3.0-2	(A Mode Profile defining an On Sight area is on-board) AND (The train passes the beginning of the On Sight area with its front end) AND (The		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	ERTMS/ETCS level switches to 1,2 or 3)							
17.5.3.3.0-1.0-4.0-1	[39]		False	True	False	Unknown		
17.5.3.3.0-1.0-4.0-2	(The ERTMS/ETCS level switches to 1,2 or 3) AND (no MA has been received)		False	True	False	Unknown		
17.5.3.3.0-1.0-5.0-1	[44]		False	True	False	Unknown		
17.5.3.3.0-1.0-5.0-2	("override" function is active) AND (ERTMS/ETCS level switches to 1 or 2 or 3) see {3} here under		False	True	False	Unknown		
17.5.3.3.0-1.0-6.0-1	[56]		False	True	False	Unknown		
17.5.3.3.0-1.0-6.0-2	(the ERTMS/ETCS level is "STM") AND (SN mode is required for the STM)		False	True	False	Unknown		
17.5.3.3.0-1.0-7.0-1	[67]		False	True	False	Unknown		
17.5.3.3.0-1.0-7.0-2	(The ERTMS/ETCS level switches to level 1) AND (a trip order has been received) AND (override is not active)		False	True	False	Unknown		
17.5.3.3.1	17.5.3.3.1 (SRS: 4.6.2) Transition Table.		False	False	False	Unknown		
17.5.3.3.1.0-1	Mode transition [21] from SN / SE to UN		False	False	False	Unknown		
17.5.3.3.1.0-2	Mode transition [25] from SN / SE to FS		False	False	False	Unknown		
17.5.3.3.1.0-3	Mode transition [34] from SN / SE to OS		False	False	False	Unknown		
17.5.3.3.1.0-4	Mode transition [44] from SN / SE to SR		False	False	False	Unknown		
17.5.3.3.1.0-5	Mode transitions [56], [39], and [67] from SN / SE to TR		False	False	False	Unknown		
17.5.3.3.2	17.5.3.3.2 (SRS: 5.10.3.7.5 (Level 2/3)) When the level transition location is passed with the estimated front end a position report shall be sent to the RBC and the active STM shall be set to standby.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.5.3.3.3	17.5.3.3.3 (SRS: 5.10.3.8.3 (Level 1)) When the level transition location is passed with the estimated front end, the active STM shall be set to standby.		False	False	False	Unknown		
17.5.3.3.4	17.5.3.3.4 (SRS: 5.10.3.12.1 (Level 0)) When the level transition location is passed the active STM shall be set to standby.		False	False	False	Unknown		
17.5.3.4	17.5.3.4 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.5.3.4.0-1.0-1.0-1	B4a		False	False	False	Unknown		
17.5.3.4.0-1.0-1.0-2	(Level transition location for an STM to ETCS transition is passed)		False	True	False	Unknown		
17.5.3.4.1	17.5.3.4.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.5.3.4.1.0-1	STM state order for CS		False	False	False	Unknown		
17.5.3.5	17.5.3.5 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.5.3.6	17.5.3.6 (FFFIS STM: 7.4.1.2.4.2) When the state transition order is going to CS state, the STM Control Function shall send an "unconditional order CS state" for the transition A4a, B4a and C4a and a "conditional order CS state" for the transition A4b.		False	False	False	Unknown		
17.5.3.7	17.5.3.7 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.5.3.7.0-1.0-1.0-1	C16		False	False	False	Unknown		
17.5.3.7.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2							
17.5.3.7.1	17.5.3.7.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.5.3.7.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.5.3.8	17.5.3.8 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.5.3.8.0-1.0-1.0-1	4a		False	False	False	Unknown		
17.5.3.8.0-1.0-1.0-2	ETCS unconditional order "Cold Standby"		False	True	False	Unknown		
17.5.3.8.1	17.5.3.8.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.5.3.8.1.0-1	Transition from DA to CS		False	False	False	Unknown		
17.5.3.9	17.5.3.9 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.5.3.9.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.5.3.9.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.5.3.10	17.5.3.10 (FFFIS STM: 7.3.1.5.1) Being in the state CS, the STM was initialised, tested, configured and is in possession of all required information for operating, but not able to receive a message from the trackside, because the reception is turned off.		False	False	False	Unknown		
17.5.3.11	17.5.3.11 (FFFIS STM: 7.3.4.1) The STM shall always turn off its antenna transmission:the antenna shall not energise trackside equipment, and shall not read trackside data, and shall not transmit data to trackside, except		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.5.3.11.0-1	in HS and DA state,		False	False	False	Unknown		
17.5.3.11.0-2	in CS state as long as the train is on its national trackside after deactivation by a level transition, and		False	False	False	Unknown		
17.5.3.11.0-3	for test purpose.		False	False	False	Unknown		
17.5.3.12	17.5.3.12 (FFFIS STM: 7.3.4.1.1) Note: When exiting DA or HS state (due to the exit of the level STM area, it may happen that the national trackside goes further than the level transition border. In this case, even if the STM is already in CS state, the STM shall have the possibility to continue to communicate with its national trackside as long as the train is located on the national trackside.		False	False	False	Unknown		
17.5.3.13	17.5.3.13 (SRS: 4.4.17.1.1) The SN mode shall enable an STM to access the following resources via the ERTMS/ETCS on-board equipment; MMI, odometer, train interface and brakes. No supervision functionality is provided by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.5.3.14	17.5.3.14 (SRS: 4.4.16.1.1) The SE mode shall permit reuse of supervision functionality in the ERTMS/ETCS on-board equipment such as MA, most restrictive speed profile and gradient. Furthermore, the SE mode shall enable the STM to access the following resources via the ERTMS/ETCS Onboard; MMI, odometer, train interface and brakes.		False	False	False	Unknown		
17.5.3.15	17.5.3.15 (FFFIS STM: 5.2.5.5) The STM shall be allowed to apply the emergency brake using the direct interface only when the STM is active (in state "Data Available") and the ETCS technical mode is SN or SE.		False	False	False	Unknown		
17.5.3.16	17.5.3.16 (FFFIS STM: 5.2.5.6) The STM shall release the emergency brake using the direct		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	interface when the STM is no more active (Transition from DA to any other state).							
17.5.3.17	17.5.3.17 (FFFIS STM: 5.2.5.7) The STM shall be allowed to apply the traction cut-off using the direct interface only when the emergency brake application is allowed over the direct interface (see chapter 5.2.5.5).		False	False	False	Unknown		
17.5.3.18	17.5.3.18 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.5.3.18.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.5.3.18.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.5.3.18.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-1	No.		False	False	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-	SR		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.5.3.18.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		

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Paragraph number	FFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.5.3.18.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-3	17.5.3.18.0-3.0-1.0-2.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.5.3.18.0-3.0-1.0-2.0-14	17.5.3.18.0-3.0-1.0-2.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-15	17.5.3.18.0-3.0-1.0-2.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-3	17.5.3.18.0-3.0-1.0-3.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.5.3.18.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-14	17.5.3.18.0-3.0-1.0-3.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.5.3.18.0-3.0-1.0-3.0-15	17.5.3.18.0-3.0-1.0-3.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.5.3.18.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0	3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.5.3.18.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-3	17.5.3.18.0-3.0-1.0-4.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-4	17.5.3.18.0-3.0-1.0-4.0-4		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-5	17.5.3.18.0-3.0-1.0-4.0-5		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-6	17.5.3.18.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-7	17.5.3.18.0-3.0-1.0-4.0-7		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-8	17.5.3.18.0-3.0-1.0-4.0-8		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-9	17.5.3.18.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-10	17.5.3.18.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-11	17.5.3.18.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-12	17.5.3.18.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-13	17.5.3.18.0-3.0-1.0-4.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.5.3.18.0-3.0-1.0-4.0-14	17.5.3.18.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-15	17.5.3.18.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-17	17.5.3.18.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-4.0-18	17.5.3.18.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-3	17.5.3.18.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-4	17.5.3.18.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-5	17.5.3.18.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-6	17.5.3.18.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-7	17.5.3.18.0-3.0-1.0-5.0-7		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.5.3.18.0-3.0-1.0-5.0-8	17.5.3.18.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-9	17.5.3.18.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-11	17.5.3.18.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-12	17.5.3.18.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-13	17.5.3.18.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-14	17.5.3.18.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-15	17.5.3.18.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-5.0-18	17.5.3.18.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0	5		False	True	False	Unknown		

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Paragraph number	FFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.5.3.18.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-3	17.5.3.18.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-5	17.5.3.18.0-3.0-1.0-6.0-5		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-9	17.5.3.18.0-3.0-1.0-6.0-9		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.5.3.18.0-3.0-1.0-6.0-14	17.5.3.18.0-3.0-1.0-6.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-15	17.5.3.18.0-3.0-1.0-6.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-3	17.5.3.18.0-3.0-1.0-7.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.5.3.18.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-15	17.5.3.18.0-3.0-1.0-7.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.5.3.18.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0	7		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.5.3.18.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-3	17.5.3.18.0-3.0-1.0-8.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.5.3.18.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-15	17.5.3.18.0-3.0-1.0-8.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-3	17.5.3.18.0-3.0-1.0-9.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.5.3.18.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-14	17.5.3.18.0-3.0-1.0-9.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.5.3.18.0-3.0-1.0-9.0-15	17.5.3.18.0-3.0-1.0-9.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.5.3.18.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	9		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-1								
17.5.3.18.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-3	17.5.3.18.0-3.0-1.0-10.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-4	17.5.3.18.0-3.0-1.0-10.0-4		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-5	17.5.3.18.0-3.0-1.0-10.0-5		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-6	17.5.3.18.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-7	17.5.3.18.0-3.0-1.0-10.0-7		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-8	17.5.3.18.0-3.0-1.0-10.0-8		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-11	17.5.3.18.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-12	17.5.3.18.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	17.5.3.18.0-3.0-1.0-10.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-13								
17.5.3.18.0-3.0-1.0-10.0-14	17.5.3.18.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-15	17.5.3.18.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-10.0-18	17.5.3.18.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-3	17.5.3.18.0-3.0-1.0-11.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-7								
17.5.3.18.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-14	17.5.3.18.0-3.0-1.0-11.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-15	17.5.3.18.0-3.0-1.0-11.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	11		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-1								
17.5.3.18.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-3	17.5.3.18.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-4	17.5.3.18.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-5	17.5.3.18.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-6	17.5.3.18.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-7	17.5.3.18.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-8	17.5.3.18.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-9	17.5.3.18.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-10	17.5.3.18.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-11	17.5.3.18.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-12	17.5.3.18.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	17.5.3.18.0-3.0-1.0-12.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-13								
17.5.3.18.0-3.0-1.0-12.0-14	17.5.3.18.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-15	17.5.3.18.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-16	X		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-12.0-18	17.5.3.18.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-3	17.5.3.18.0-3.0-1.0-13.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-7								
17.5.3.18.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-14	17.5.3.18.0-3.0-1.0-13.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-15	17.5.3.18.0-3.0-1.0-13.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-16	X		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-1								
17.5.3.18.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-3	17.5.3.18.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-4	17.5.3.18.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-5	17.5.3.18.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-6	17.5.3.18.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-7	17.5.3.18.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-8	17.5.3.18.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-9	17.5.3.18.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-10	17.5.3.18.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-11	17.5.3.18.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-12	17.5.3.18.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	17.5.3.18.0-3.0-1.0-14.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-13								
17.5.3.18.0-3.0-1.0-14.0-14	17.5.3.18.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-15	17.5.3.18.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-16	X		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-14.0-18	17.5.3.18.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-3	17.5.3.18.0-3.0-1.0-15.0-3		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-7								
17.5.3.18.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-14	17.5.3.18.0-3.0-1.0-15.0-14		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-15	17.5.3.18.0-3.0-1.0-15.0-15		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-16	X		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.5.3.18.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.5.3.19	17.5.3.19 (FFFIS STM: 7.6.3.2) When an STM in DA state or HS state receives an order to go in		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	CS state, the STM							
17.5.3.19.0-1	shall have the possibility to close the connection with the JRU (up to the STM to decide it or not).		False	False	False	Unknown		
17.5.3.19.0-2	shall have the possibility to close the connection with the DRU (up to the STM to decide it or not).		False	False	False	Unknown		
17.5.3.19.0-3	shall have the possibility to close the connection with the TIU (up to the STM to decide it or not).		False	False	False	Unknown		
17.5.3.19.0-4	shall have the possibility to close the connection with the BIU (up to the STM to decide it or not).		False	False	False	Unknown		
17.5.3.19.0-5	shall maintain the connection with the STM Control Function.		False	False	False	Unknown		
17.5.3.19.0-6	shall close the connections with all other ETCS On-board functions		False	False	False	Unknown		
17.5.3.20	17.5.3.20 (SRS: 5.10.4.2) If the driver has not yet acknowledged 5 seconds after the level transition, a service brake command shall be initiated.		False	False	False	Unknown		
17.5.3.21	17.5.3.21 (SRS: 5.10.4.3) The driver shall then acknowledge the level transition in order to release the service brake command.		False	False	False	Unknown		
17.6	17.6 Transition STM to ETCS (trip situation)		<i>False</i>	<i>False</i>	<i>False</i>	<i>Unknown</i>		
17.6.1	17.6.1		False	False	False	Unknown		
17.6.1.1	17.6.1.1 The transition STM to STM in trip situation is covered by the description in chapter 17.5: According to the current version of the SRS (/1/ SUBSET-026; SRS Version 2.2.2), the supervision of the STM ends at the transition border. Therefore the ETCS sends an "unconditional order CS" and the STM ends the supervision and goes to state CS as soon as possible.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.6.1.1.0-1	If for further changes of the SRS for the STM to ETCS transition (especially for a transition from STM to ETCS Level 0), the STM shall supervise and keep a trip situation, the ETCS may send a "conditional order CS" and the STM will be allowed to keep a trip situation.		False	False	False	Unknown		
17.7	17.7 Transition STM to ETCS (non-leading / sleeping)		False	False	False	Unknown		
17.7.1	17.7.1 Requirements for the announcement of the transition		False	False	False	Unknown		
17.7.1.1	17.7.1.1 (SRS: 5.10.1.1) Every level transition into levels 2, 3, or STM shall be announced to the ERTMS/ETCS on-board equipment via balise group or via the RBC.		False	False	False	Unknown		
17.7.1.2	17.7.1.2 (SRS: 5.10.1.2) A level transition announcement to the ERTMS/ETCS on-board equipment shall consist of an order to execute the level transition at a further location corresponding to the border.		False	False	False	Unknown		
17.7.1.3	17.7.1.3 (SRS: 5.10.2.2) When going to a mixed level area, the level transition announcement and the level transition order at the border shall contain all the supported ERTMS/ETCS levels with a table of priority.		False	False	False	Unknown		
17.7.1.4	17.7.1.4 (SRS: 5.10.2.3) The table of priority shall list all the supported levels from the highest priority level to the lowest one.		False	False	False	Unknown		
17.7.1.4.1	17.7.1.4.1 (SRS: 5.10.2.3.1) Examples: table gives 3, 2, STM X, 1, STM Y, 0. Train is fitted for level 1 and STM X, it will select STM X level. Train is fitted for level 1 and STM Y, it will select level 1. Train is level 2 fitted, it will select level 2.		False	False	False	Unknown		
17.7.1.5	17.7.1.5 (SRS: 5.10.2.4) When receiving the information about all ERTMS/ETCS levels that are available, the ERTMS/ETCS on-board equipment shall select in the table the level with		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	the highest priority that the onboard equipment allows to use.							
17.7.1.6	17.7.1.6 (SRS: 5.10.1.3) When the ERTMS/ETCS on-board equipment receives a level transition announcement, it shall immediately inform the driver about the announced level transition.		False	False	False	Unknown		
17.7.1.7	17.7.1.7 (SRS: 5.10.2.6) The ERTMS/ETCS on-board equipment shall inform the driver only about the selected level transition.		False	False	False	Unknown		
17.7.1.8	17.7.1.8 (SRS: 4.7.2) MMI versus mode table (outputs).		False	False	False	Unknown		
17.7.1.8.0-1.0-1.0-1	Output information		False	False	False	Unknown		
17.7.1.8.0-1.0-1.0-2	NP		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-3	SB		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-4	SH		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-5	FS		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-6	SR		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-7	OS		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-8	SL		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-9	NL		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-10	UN		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-11	TR		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-12	PT		False	True	False	Unknown		
17.7.1.8.0-	SF		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-1.0-13								
17.7.1.8.0-1.0-1.0-14	IS		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-15	SE		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-16	SN		False	True	False	Unknown		
17.7.1.8.0-1.0-1.0-17	RV		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-1	Level transition announcement		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-2	17.7.1.8.0-1.0-2.0-2		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-3	17.7.1.8.0-1.0-2.0-3		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-4	17.7.1.8.0-1.0-2.0-4		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-5	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-6	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-7	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-8	17.7.1.8.0-1.0-2.0-8		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-9	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-10	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-11	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-12	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-13	17.7.1.8.0-1.0-2.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.7.1.8.0-1.0-2.0-14	17.7.1.8.0-1.0-2.0-14		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-15	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-16	A		False	True	False	Unknown		
17.7.1.8.0-1.0-2.0-17	A		False	True	False	Unknown		
17.7.1.9	17.7.1.9 (SRS: 5.10.1.7) As soon as the announcement of the level transition has been received, some data (mainly movement authority and track description data) from the transmission media of the new level shall be accepted, but shall not be used until the level transition is effective.		False	False	False	Unknown		
17.7.2	17.7.2 Requirements for the transition		False	False	False	Unknown		
17.7.2.1	17.7.2.1 (SRS: 5.10.1.4) At the level transition border a balise group with an order to switch to the new level immediately shall be placed.		False	False	False	Unknown		
17.7.2.2	17.7.2.2 (SRS: 5.10.1.5) If the message from the border balise group is not received, the level transition shall still be executed when the estimated front end passes the location given in the announcement.		False	False	False	Unknown		
17.7.2.2.1	17.7.2.2.1 (SRS: 5.10.3.7.5 (Level 2/3)) When the level transition location is passed with the estimated front end a position report shall be sent to the RBC and the active STM shall be set to standby.		False	False	False	Unknown		
17.7.2.2.2	17.7.2.2.2 (SRS: 5.10.3.8.3 (Level 1)) When the level transition location is passed with the estimated front end, the active STM shall be set to standby.		False	False	False	Unknown		
17.7.2.2.3	17.7.2.2.3 (SRS: 5.10.3.12.1 (Level 0)) When the level transition location is passed the active STM shall be set to standby.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.7.2.3	17.7.2.3 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.7.2.3.0-1.0-1.0-1	B4a		False	True	False	Unknown		
17.7.2.3.0-1.0-1.0-2	(Level transition location for an STM to ETCS transition is passed)		False	True	False	Unknown		
17.7.2.3.1	17.7.2.3.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.7.2.3.1.0-1	STM state order for CS		False	False	False	Unknown		
17.7.2.4	17.7.2.4 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.7.2.5	17.7.2.5 (FFFIS STM: 7.4.1.2.4.2) When the state transition order is going to CS state, the STM Control Function shall send an "unconditional order CS state" for the transition A4a, B4a and C4a and a "conditional order CS state" for the transition A4b.		False	False	False	Unknown		
17.7.2.6	17.7.2.6 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.7.2.6.0-1.0-1.0-1	C16		False	False	False	Unknown		
17.7.2.6.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.7.2.6.1	17.7.2.6.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.7.2.6.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.7.2.7	17.7.2.7 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.7.2.7.0-1.0-1.0-1	4a		False	True	False	Unknown		
17.7.2.7.0-1.0-1.0-2	ETCS unconditional order "Cold Standby"		False	True	False	Unknown		
17.7.2.7.1	17.7.2.7.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.7.2.7.1.0-1	Transition from DA to CS		False	False	False	Unknown		
17.7.2.8	17.7.2.8 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.7.2.8.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.7.2.8.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.7.2.9	17.7.2.9 (FFFIS STM: 7.3.1.5.1) Being in the state CS, the STM was initialised, tested, configured and is in possession of all required information for operating, but not able to receive a message from the trackside, because the reception is turned off.		False	False	False	Unknown		
17.7.2.10	17.7.2.10 (FFFIS STM: 7.3.4.1) The STM shall always turn off its antenna transmission:the antenna shall not energise trackside equipment, and shall not read trackside data, and shall not transmit data to trackside, except		False	False	False	Unknown		
17.7.2.10.0-1	in HS and DA state,		False	False	False	Unknown		
17.7.2.10.0-2	in CS state as long as the train is on its national trackside after deactivation by a level transition, and		False	False	False	Unknown		
17.7.2.10.0-3	for test purpose.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.7.2.11	17.7.2.11 (FFFIS STM: 7.3.4.1.1) Note: When exiting DA or HS state (due to the exit of the level STM area, it may happen that the national trackside goes further than the level transition border. In this case, even if the STM is already in CS state, the STM shall have the possibility to continue to communicate with its national trackside as long as the train is located on the national trackside.		False	False	False	Unknown		
17.7.2.12	17.7.2.12 (SRS: 4.4.17.1.1) The SN mode shall enable an STM to access the following resources via the ERTMS/ETCS on-board equipment; MMI, odometer, train interface and brakes. No supervision functionality is provided by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.7.2.13	17.7.2.13 (SRS: 4.4.16.1.1) The SE mode shall permit reuse of supervision functionality in the ERTMS/ETCS on-board equipment such as MA, most restrictive speed profile and gradient. Furthermore, the SE mode shall enable the STM to access the following resources via the ERTMS/ETCS Onboard; MMI, odometer, train interface and brakes.		False	False	False	Unknown		
17.7.2.14	17.7.2.14 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.7.2.14.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.7.2.14.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.7.2.14.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-1	No.		False	False	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2								
17.7.2.14.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-	SF		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14								
17.7.2.14.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-3	17.7.2.14.0-3.0-1.0-2.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
8								
17.7.2.14.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-14	17.7.2.14.0-3.0-1.0-2.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.7.2.14.0-3.0-1.0-2.0-15	17.7.2.14.0-3.0-1.0-2.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.7.2.14.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-	Reference Clock		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2								
17.7.2.14.0-3.0-1.0-3.0-3	17.7.2.14.0-3.0-1.0-3.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-14	17.7.2.14.0-3.0-1.0-3.0-14		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14								
17.7.2.14.0-3.0-1.0-3.0-15	17.7.2.14.0-3.0-1.0-3.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-3	17.7.2.14.0-3.0-1.0-4.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-4	17.7.2.14.0-3.0-1.0-4.0-4		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-5	17.7.2.14.0-3.0-1.0-4.0-5		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-6	17.7.2.14.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-7	17.7.2.14.0-3.0-1.0-4.0-7		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-8	17.7.2.14.0-3.0-1.0-4.0-8		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
8								
17.7.2.14.0-3.0-1.0-4.0-9	17.7.2.14.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-10	17.7.2.14.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-11	17.7.2.14.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-12	17.7.2.14.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-13	17.7.2.14.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-14	17.7.2.14.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-15	17.7.2.14.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-17	17.7.2.14.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-4.0-18	17.7.2.14.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-	DMI		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2								
17.7.2.14.0-3.0-1.0-5.0-3	17.7.2.14.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-4	17.7.2.14.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-5	17.7.2.14.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-6	17.7.2.14.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-7	17.7.2.14.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-8	17.7.2.14.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-9	17.7.2.14.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-11	17.7.2.14.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-12	17.7.2.14.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-13	17.7.2.14.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-14	17.7.2.14.0-3.0-1.0-5.0-14		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14								
17.7.2.14.0-3.0-1.0-5.0-15	17.7.2.14.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-5.0-18	17.7.2.14.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-3	17.7.2.14.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-5	17.7.2.14.0-3.0-1.0-6.0-5		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
8								
17.7.2.14.0-3.0-1.0-6.0-9	17.7.2.14.0-3.0-1.0-6.0-9		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-14	17.7.2.14.0-3.0-1.0-6.0-14		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-15	17.7.2.14.0-3.0-1.0-6.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-	JRU		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2								
17.7.2.14.0-3.0-1.0-7.0-3	17.7.2.14.0-3.0-1.0-7.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-	(x)		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14								
17.7.2.14.0-3.0-1.0-7.0-15	17.7.2.14.0-3.0-1.0-7.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-3	17.7.2.14.0-3.0-1.0-8.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
8								
17.7.2.14.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-15	17.7.2.14.0-3.0-1.0-8.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-	Odometer		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2								
17.7.2.14.0-3.0-1.0-9.0-3	17.7.2.14.0-3.0-1.0-9.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-14	17.7.2.14.0-3.0-1.0-9.0-14		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14								
17.7.2.14.0-3.0-1.0-9.0-15	17.7.2.14.0-3.0-1.0-9.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-3	17.7.2.14.0-3.0-1.0-10.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-4	17.7.2.14.0-3.0-1.0-10.0-4		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-5	17.7.2.14.0-3.0-1.0-10.0-5		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-6	17.7.2.14.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-7	17.7.2.14.0-3.0-1.0-10.0-7		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	17.7.2.14.0-3.0-1.0-10.0-8		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-8								
17.7.2.14.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-11	17.7.2.14.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-12	17.7.2.14.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-13	17.7.2.14.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-14	17.7.2.14.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-15	17.7.2.14.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-10.0-18	17.7.2.14.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-2								
17.7.2.14.0-3.0-1.0-11.0-3	17.7.2.14.0-3.0-1.0-11.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	17.7.2.14.0-3.0-1.0-11.0-14		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-14								
17.7.2.14.0-3.0-1.0-11.0-15	17.7.2.14.0-3.0-1.0-11.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-3	17.7.2.14.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-4	17.7.2.14.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-5	17.7.2.14.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-6	17.7.2.14.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-7	17.7.2.14.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	17.7.2.14.0-3.0-1.0-12.0-8		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-8								
17.7.2.14.0-3.0-1.0-12.0-9	17.7.2.14.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-10	17.7.2.14.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-11	17.7.2.14.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-12	17.7.2.14.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-13	17.7.2.14.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-14	17.7.2.14.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-15	17.7.2.14.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-16	X		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-12.0-18	17.7.2.14.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	Emergency Brake status		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-2								
17.7.2.14.0-3.0-1.0-13.0-3	17.7.2.14.0-3.0-1.0-13.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	17.7.2.14.0-3.0-1.0-13.0-14		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-14								
17.7.2.14.0-3.0-1.0-13.0-15	17.7.2.14.0-3.0-1.0-13.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-16	X		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-3	17.7.2.14.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-4	17.7.2.14.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-5	17.7.2.14.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-6	17.7.2.14.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-7	17.7.2.14.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	17.7.2.14.0-3.0-1.0-14.0-8		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-8								
17.7.2.14.0-3.0-1.0-14.0-9	17.7.2.14.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-10	17.7.2.14.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-11	17.7.2.14.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-12	17.7.2.14.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-13	17.7.2.14.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-14	17.7.2.14.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-15	17.7.2.14.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-16	X		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-14.0-18	17.7.2.14.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	Service Brake status		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-2								
17.7.2.14.0-3.0-1.0-15.0-3	17.7.2.14.0-3.0-1.0-15.0-3		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-	17.7.2.14.0-3.0-1.0-15.0-14		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-14								
17.7.2.14.0-3.0-1.0-15.0-15	17.7.2.14.0-3.0-1.0-15.0-15		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-16	X		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.7.2.14.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.7.2.15	17.7.2.15 (FFFIS STM: 7.6.3.2) When an STM in DA state or HS state receives an order to go in CS state, the STM		False	False	False	Unknown		
17.7.2.15.0-1	shall have the possibility to close the connection with the JRU (up to the STM to decide it or not).		False	False	False	Unknown		
17.7.2.15.0-2	shall have the possibility to close the connection with the DRU (up to the STM to decide it or not).		False	False	False	Unknown		
17.7.2.15.0-3	shall have the possibility to close the connection with the TIU (up to the STM to decide it or not).		False	False	False	Unknown		
17.7.2.15.0-4	shall have the possibility to close the connection with the BIU (up to the STM to decide it or not).		False	False	False	Unknown		
17.7.2.15.0-5	shall maintain the connection with the STM Control Function.		False	False	False	Unknown		
17.7.2.15.0-6	shall close the connections with all other ETCS On-board functions		False	False	False	Unknown		
17.8	17.8 Transition STM X to STM Y (except for non-leading / sleeping and trip situation)		False	False	False	Unknown		
17.8.1	17.8.1 Requirements for the announcement of the transition		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.1.1	17.8.1.1 (SRS: 5.10.1.1) Every level transition into levels 2, 3, or STM shall be announced to the ERTMS/ETCS on-board equipment via balise group or via the RBC.		False	False	False	Unknown		
17.8.1.2	17.8.1.2 (SRS: 5.10.1.2) A level transition announcement to the ERTMS/ETCS on-board equipment shall consist of an order to execute the level transition at a further location corresponding to the border.		False	False	False	Unknown		
17.8.1.3	17.8.1.3 (SRS: 5.10.2.2) When going to a mixed level area, the level transition announcement and the level transition order at the border shall contain all the supported ERTMS/ETCS levels with a table of priority.		False	False	False	Unknown		
17.8.1.4	17.8.1.4 (SRS: 5.10.2.3) The table of priority shall list all the supported levels from the highest priority level to the lowest one.		False	False	False	Unknown		
17.8.1.4.1	17.8.1.4.1 (SRS: 5.10.2.3.1) Examples: table gives 3, 2, STM X, 1, STM Y, 0. Train is fitted for level 1 and STM X, it will select STM X level. Train is fitted for level 1 and STM Y, it will select level 1. Train is level 2 fitted, it will select level 2.		False	False	False	Unknown		
17.8.1.5	17.8.1.5 (SRS: 5.10.2.4) When receiving the information about all ERTMS/ETCS levels that are available, the ERTMS/ETCS on-board equipment shall select in the table the level with the highest priority that the onboard equipment allows to use.		False	False	False	Unknown		
17.8.1.6	17.8.1.6 (SRS: 5.10.2.7) If the ERTMS/ETCS on-board equipment is not fitted for any of the announced levels it shall nevertheless make the transition, to the announced level with the lowest priority.		False	False	False	Unknown		
17.8.1.7	17.8.1.7 (SRS: 5.10.1.3) When the ERTMS/ETCS on-board equipment receives a level transition announcement, it shall immediately inform the		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	driver about the announced level transition.							
17.8.1.8	17.8.1.8 (SRS: 5.10.2.6) The ERTMS/ETCS on-board equipment shall inform the driver only about the selected level transition.		False	False	False	Unknown		
17.8.1.9	17.8.1.9 (SRS: 5.10.1.7) As soon as the announcement of the level transition has been received, some data (mainly movement authority and track description data) from the transmission media of the new level shall be accepted, but shall not be used until the level transition is effective.		False	False	False	Unknown		
17.8.1.10	17.8.1.10 (SRS: 5.10.3.11.1) When the announcement is received, a signal shall be sent by the ERTMS/ETCS onboard to the STM specified in the announcement meaning that the STM shall prepare for immediate activation when the level transition location is passed with the maximum safe front end.		False	False	False	Unknown		
17.8.1.11	17.8.1.11 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.1.11.0-1.0-1.0-1	A6		False	False	False	Unknown		
17.8.1.11.0-1.0-1.0-2	(ETCS On-board receives an announcement for a level transition to Level STM X) AND_(STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3		False	True	False	Unknown		
17.8.1.11.1	17.8.1.11.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.1.11.1.0-1	STM state order for HS		False	False	False	Unknown		
17.8.1.12	17.8.1.12 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.1.13	17.8.1.13 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.1.13.0-1.0-1.0-1	C16		False	False	False	Unknown		
17.8.1.13.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.8.1.13.1	17.8.1.13.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.1.13.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.8.1.14	17.8.1.14 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.		False	False	False	Unknown		
17.8.1.15	17.8.1.15 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.8.1.15.0-1	When a connection is established		False	False	False	Unknown		
17.8.1.15.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.8.1.16	17.8.1.16 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.8.1.16.0-1	When a connection is established		False	False	False	Unknown		
17.8.1.16.0-2	Whenever a Brake status changes.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.1.17	17.8.1.17 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.8.1.17.0-1.0-1.0-1	6		False	False	False	Unknown		
17.8.1.17.0-1.0-1.0-2	ETCS order "Hot Standby"		False	True	False	Unknown		
17.8.1.17.1	17.8.1.17.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.8.1.17.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.8.1.18	17.8.1.18 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.8.1.18.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.8.1.18.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.8.1.19	17.8.1.19 (FFFIS STM: 7.3.1.6.1) Being in the state HS, the STM shall be able to process the information from or to the national trackside.		False	False	False	Unknown		
17.8.1.20	17.8.1.20 (FFFIS STM: 7.3.1.6.1.1) Note: In HS state, when receiving national trackside information, the STM shall treat this information to be prepared to take in charge the train movement supervision once its state will switch to DA state.		False	False	False	Unknown		
17.8.2	17.8.2 Requirements for the area between announcement and transition border		False	False	False	Unknown		
17.8.2.1	17.8.2.1 (SRS: 5.10.4.1) If defined so for the level transition (see table below), the driver shall be asked to acknowledge the transition when the max safe front end of the train passes a trackside defined location in rear of the level transition border.		False	False	False	Unknown		
17.8.2.1.0-1	Note: The table which is referenced in 17.8.2.1 (SRS) is not included here. The table gives the requirement to have an		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	acknowledgement from the driver for every level transition to Level STM.							
17.8.2.2	17.8.2.2 (FFFIS STM: 7.3.1.6.2) The STM in HS shall have the possibility to send a "STM max speed" to the STM control function.		False	False	False	Unknown		
17.8.2.2.1	17.8.2.2.1 (FFFIS STM: 7.3.1.6.2.1) Note: This "STM max speed" is to allow the STM, for national reasons unknown to the ETCS On-board or ERTMS Trackside, to request a given train speed at the level transition border in order to have a smooth transition.		False	False	False	Unknown		
17.8.2.3	17.8.2.3 (FFFIS STM: 7.4.2.2.1) If receiving an "STM max speed" from an STM in HS state, the ETCS On-board shall include the "STM max speed" into the computation of the MRSP beginning at the level transition border and ending when the report "DA state" has been received by the ETCS On-board from the STM to be activated.		False	False	False	Unknown		
17.8.2.4	17.8.2.4 (FFFIS STM: 7.4.2.2.1.1) Exception: After receiving an announcement for an STM to STM transition, the ETCS On-board shall not consider the "STM max speed".		False	False	False	Unknown		
17.8.2.5	17.8.2.5 (FFFIS STM: 7.4.2.2.3) If the ETCS On-board does not receive an "STM max speed" value from the STM in HS state, the ETCS On-board shall not supervise any "STM max speed" at all and the computation of the MRSP is not affected.		False	False	False	Unknown		
17.8.2.6	17.8.2.6 (FFFIS STM: 7.3.1.6.3) The STM in HS shall have the possibility to send an "STM system speed" together with an "STM system distance" to the STM control function.		False	False	False	Unknown		
17.8.2.6.1	17.8.2.6.1 (FFFIS STM: 7.3.1.6.3.1) Note: This "STM system speed" together with the "STM system distance" is to allow the STM, to request a given train speed at a given position ("STM system distance") before the level		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	transition border in order to be able to detect its national trackside.							
17.8.2.7	17.8.2.7 (FFFIS STM: 7.4.2.2.4) When receiving an "STM system speed" together with an "STM system distance" from an STM in HS state, the ETCS On-board shall consider the "STM system speed" as a new speed restriction that applies at a location "STM system distance" before the level transition border and ending at the level transition border: The ETCS On-board shall include the "STM system speed" into the computation of the MRSP.		False	False	False	Unknown		
17.8.2.8	17.8.2.8 (FFFIS STM: 7.4.2.2.4.1) Exception: After receiving an announcement for an STM to STM transition, the ETCS On-board shall not consider the "STM system speed" and "STM system distance".		False	False	False	Unknown		
17.8.2.9	17.8.2.9 (FFFIS STM: 7.4.2.2.5) If the ETCS On-board does not receive the "STM system speed" together with the "STM system distance" values from the STM in HS state, the ETCS On-board shall not take into account "STM system speed" and "STM system distance" at all and the computation of the MRSP is not affected.		False	False	False	Unknown		
17.8.2.10	17.8.2.10 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.8.2.10.0-1	When a connection is established		False	False	False	Unknown		
17.8.2.10.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.8.2.11	17.8.2.11 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.2.11.0-1	When a connection is established		False	False	False	Unknown		
17.8.2.11.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.8.2.12	17.8.2.12 (FFFIS STM: 10.5.3.3) The STM in Hot Standby shall be allowed to send preliminary request for DMI objects to the ETCS On-board.		False	False	False	Unknown		
17.8.2.13	17.8.2.13 (FFFIS STM: 10.5.2.6) The ETCS On-board shall be able to receive preliminary request for DMI objects from an STM being in HS state. The ETCS On-board shall be allowed to ignore this information.		False	False	False	Unknown		
17.8.2.14	17.8.2.14 (FFFIS STM: 10.5.2.6.1) Note: The sending of preliminary request is to allow the DMI function to prepare in background the information to be presented to the driver once the STM switches to Data Available state.		False	False	False	Unknown		
17.8.2.15	17.8.2.15 (FFFIS STM: 10.5.2.6.2) Note: This is to avoid a gap of the display at level transition and to have a one shot up-date of the screen to display STM information at level transition.		False	False	False	Unknown		
17.8.3	17.8.3 Requirements for the transition		False	False	False	Unknown		
17.8.3.1	17.8.3.1 (SRS: 5.10.1.4) At the level transition border a balise group with an order to switch to the new level immediately shall be placed.		False	False	False	Unknown		
17.8.3.2	17.8.3.2 (SRS: 5.10.1.5) If the message from the border balise group is not received, the level transition shall still be executed when the estimated front end passes the location given in the announcement.		False	False	False	Unknown		
17.8.3.3	17.8.3.3 (SRS: 5.10.4.2) If the driver has not yet acknowledged 5 seconds after the level transition, a service brake command shall be initiated.		False	False	False	Unknown		
17.8.3.4	17.8.3.4 (SRS: 5.10.4.3) The driver shall then acknowledge the level transition in order to		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	release the service brake command.							
17.8.3.4.1	17.8.3.4.1 (SRS: 5.10.3.11.2) When the level transition location is passed with the maximum safe front end the active STM (STM X) shall be set to standby and the STM specified in the border balise group (STM Y) shall be activated.		False	False	False	Unknown		
17.8.3.5	17.8.3.5 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.5.0-1.0-1.0-1	A4b		False	False	False	Unknown		
17.8.3.5.0-1.0-1.0-2	(Level transition location for an STM X to STM Y transition is passed)		False	True	False	Unknown		
17.8.3.5.1	17.8.3.5.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.5.1.0-1	STM state order for CS		False	False	False	Unknown		
17.8.3.6	17.8.3.6 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.8.3.7	17.8.3.7 (FFFIS STM: 7.4.1.2.4.2) When the state transition order is going to CS state, the STM Control Function shall send an "unconditional order CS state" for the transition A4a, B4a and C4a and a "conditional order CS state" for the transition A4b.		False	False	False	Unknown		
17.8.3.8	17.8.3.8 (FFFIS STM: 7.4.1.3.4) After sending a "conditional order CS" the access to ETCS On-board functions shall remain until the STM report CS is received by the ETCS On-board.		False	False	False	Unknown		
17.8.3.9	17.8.3.9 (FFFIS STM: 7.3.3.1) When an STM in DA state receives a "conditional CS state transition order", the STM shall be allowed to stay in DA state as long as a national trip		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	situation is processed by this STM.							
17.8.3.10	17.8.3.10 (FFFIS STM: 7.3.3.1.1) Justification: When a level transition border is passed, an STM may have to stay active after receiving a deactivation order because the STM is currently processing a national trip situation.		False	False	False	Unknown		
17.8.3.11	17.8.3.11 (FFFIS STM: 7.3.3.2) When an STM in DA state receives a "conditional CS state transition order" and is not going to change to CS state as soon as possible due to a national trip situation (see 7.3.3.1), the STM shall send a "TRIP" message to the STM Control Function		False	False	False	Unknown		
17.8.3.11.0-1	Immediately after the STM has received the "conditional CS state transition order, and		False	False	False	Unknown		
17.8.3.11.0-2	(after sending the first "TRIP" message) every 5 seconds.		False	False	False	Unknown		
17.8.3.12	17.8.3.12 (FFFIS STM: 7.3.3.2.1) Note: The STM shall send the "TRIP" messages with a cycle time of 5 seconds in order to fulfil the time-out check of 10 seconds starting with sending the "conditional CS state transition order" within the STM Control Function.		False	False	False	Unknown		
17.8.3.13	17.8.3.13 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.13.0-1.0-1.0-1	E16		False	False	False	Unknown		
17.8.3.13.0-1.0-1.0-2	(the STM Control Function has sent a "conditional CS state transition order") AND (the STM does not report CS state or send a "Trip" message within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.8.3.13.1	17.8.3.13.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.13.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.14	17.8.3.14 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.14.0-1.0-1.0-1	F16		False	False	False	Unknown		
17.8.3.14.0-1.0-1.0-2	(the STM Control Function has already received a "Trip" message from an STM) AND (the STM does not report CS state or send a "Trip" message within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.8.3.14.1	17.8.3.14.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.14.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.8.3.15	17.8.3.15 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.8.3.15.0-1.0-1.0-1	4b		False	False	False	Unknown		
17.8.3.15.0-1.0-1.0-2	ETCS conditional order "Cold Standby"		False	True	False	Unknown		
17.8.3.15.1	17.8.3.15.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.8.3.15.1.0-1	Transition from DA to CS		False	False	False	Unknown		
17.8.3.16	17.8.3.16 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.8.3.16.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.8.3.16.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.8.3.17	17.8.3.17 (FFFIS STM: 7.3.1.5.1) Being in the state CS, the STM was initialised, tested, configured and is in possession of all required information for operating, but not able to receive a message from the trackside, because the		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	reception is turned off.							
17.8.3.18	17.8.3.18 (FFFIS STM: 7.3.4.1) The STM shall always turn off its antenna transmission:-the antenna shall not energise trackside equipment, and shall not read trackside data, and shall not transmit data to trackside, except		False	False	False	Unknown		
17.8.3.18.0-1	in HS and DA state,		False	False	False	Unknown		
17.8.3.18.0-2	in CS state as long as the train is on its national trackside after deactivation by a level transition, and		False	False	False	Unknown		
17.8.3.18.0-3	for test purpose.		False	False	False	Unknown		
17.8.3.19	17.8.3.19 (FFFIS STM: 7.3.4.1.1) Note: When exiting DA or HS state (due to the exit of the level STM area, it may happen that the national trackside goes further than the level transition border. In this case, even if the STM is already in CS state, the STM shall have the possibility to continue to communicate with its national trackside as long as the train is located on the national trackside.		False	False	False	Unknown		
17.8.3.20	17.8.3.20 (SRS: 4.4.17.1.1) The SN mode shall enable an STM to access the following resources via the ERTMS/ETCS on-board equipment; MMI, odometer, train interface and brakes. No supervision functionality is provided by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.8.3.21	17.8.3.21 (SRS: 4.4.16.1.1) The SE mode shall permit reuse of supervision functionality in the ERTMS/ETCS on-board equipment such as MA, most restrictive speed profile and gradient. Furthermore, the SE mode shall enable the STM to access the following resources via the ERTMS/ETCS Onboard; MMI, odometer, train interface and brakes.		False	False	False	Unknown		
17.8.3.22	17.8.3.22 (FFFIS STM: 5.2.5.5) The STM shall be		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	allowed to apply the emergency brake using the direct interface only when the STM is active (in state "Data Available") and the ETCS technical mode is SN or SE.							
17.8.3.23	17.8.3.23 (FFFIS STM: 5.2.5.6) The STM shall release the emergency brake using the direct interface when the STM is no more active (Transition from DA to any other state).		False	False	False	Unknown		
17.8.3.24	17.8.3.24 (FFFIS STM: 5.2.5.7) The STM shall be allowed to apply the traction cut-off using the direct interface only when the emergency brake application is allowed over the direct interface (see chapter 5.2.5.5).		False	False	False	Unknown		
17.8.3.25	17.8.3.25 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.8.3.25.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.8.3.25.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.8.3.25.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-1	No.		False	False	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-3	17.8.3.25.0-3.0-1.0-2.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		

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17.8.3.25.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-14	17.8.3.25.0-3.0-1.0-2.0-14		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-15	17.8.3.25.0-3.0-1.0-2.0-15		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-3	17.8.3.25.0-3.0-1.0-3.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		

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17.8.3.25.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-14	17.8.3.25.0-3.0-1.0-3.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-3.0-15	17.8.3.25.0-3.0-1.0-3.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-3	17.8.3.25.0-3.0-1.0-4.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-4	17.8.3.25.0-3.0-1.0-4.0-4		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-5	17.8.3.25.0-3.0-1.0-4.0-5		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-6	17.8.3.25.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-7	17.8.3.25.0-3.0-1.0-4.0-7		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-8	17.8.3.25.0-3.0-1.0-4.0-8		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-9	17.8.3.25.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-10	17.8.3.25.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-11	17.8.3.25.0-3.0-1.0-4.0-11		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-4.0-12	17.8.3.25.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-13	17.8.3.25.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-14	17.8.3.25.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-15	17.8.3.25.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-17	17.8.3.25.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-4.0-18	17.8.3.25.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-3	17.8.3.25.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-4	17.8.3.25.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-5	17.8.3.25.0-3.0-1.0-5.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-5.0-6	17.8.3.25.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-7	17.8.3.25.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-8	17.8.3.25.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-9	17.8.3.25.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-11	17.8.3.25.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-12	17.8.3.25.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-13	17.8.3.25.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-14	17.8.3.25.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-15	17.8.3.25.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-5.0-18	17.8.3.25.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-3	17.8.3.25.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-5	17.8.3.25.0-3.0-1.0-6.0-5		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-9	17.8.3.25.0-3.0-1.0-6.0-9		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-14	17.8.3.25.0-3.0-1.0-6.0-14		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-15	17.8.3.25.0-3.0-1.0-6.0-15		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-3	17.8.3.25.0-3.0-1.0-7.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-15	17.8.3.25.0-3.0-1.0-7.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-3	17.8.3.25.0-3.0-1.0-8.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-15	17.8.3.25.0-3.0-1.0-8.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-3	17.8.3.25.0-3.0-1.0-9.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-14	17.8.3.25.0-3.0-1.0-9.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-9.0-15	17.8.3.25.0-3.0-1.0-9.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-3	17.8.3.25.0-3.0-1.0-10.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-4	17.8.3.25.0-3.0-1.0-10.0-4		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-5	17.8.3.25.0-3.0-1.0-10.0-5		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-6	17.8.3.25.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-7	17.8.3.25.0-3.0-1.0-10.0-7		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-8	17.8.3.25.0-3.0-1.0-10.0-8		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-11	17.8.3.25.0-3.0-1.0-10.0-11		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-10.0-12	17.8.3.25.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-13	17.8.3.25.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-14	17.8.3.25.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-15	17.8.3.25.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-10.0-18	17.8.3.25.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-3	17.8.3.25.0-3.0-1.0-11.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-14	17.8.3.25.0-3.0-1.0-11.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-11.0-15	17.8.3.25.0-3.0-1.0-11.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-3	17.8.3.25.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-4	17.8.3.25.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-5	17.8.3.25.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-6	17.8.3.25.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-7	17.8.3.25.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-8	17.8.3.25.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-9	17.8.3.25.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-10	17.8.3.25.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-11	17.8.3.25.0-3.0-1.0-12.0-11		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-12.0-12	17.8.3.25.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-13	17.8.3.25.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-14	17.8.3.25.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-15	17.8.3.25.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-16	X		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-12.0-18	17.8.3.25.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-3	17.8.3.25.0-3.0-1.0-13.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-14	17.8.3.25.0-3.0-1.0-13.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-13.0-15	17.8.3.25.0-3.0-1.0-13.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-13.0-16	X		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-3	17.8.3.25.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-4	17.8.3.25.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-5	17.8.3.25.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-6	17.8.3.25.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-7	17.8.3.25.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-8	17.8.3.25.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-9	17.8.3.25.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-10	17.8.3.25.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-11	17.8.3.25.0-3.0-1.0-14.0-11		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-14.0-12	17.8.3.25.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-13	17.8.3.25.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-14	17.8.3.25.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-15	17.8.3.25.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-16	X		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-14.0-18	17.8.3.25.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-3	17.8.3.25.0-3.0-1.0-15.0-3		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-14	17.8.3.25.0-3.0-1.0-15.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-15.0-15	17.8.3.25.0-3.0-1.0-15.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.25.0-3.0-1.0-15.0-16	X		False	True	False	Unknown		
17.8.3.25.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.25.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.8.3.26	17.8.3.26 (FFFIS STM: 7.6.3.2) When an STM in DA state or HS state receives an order to go in CS state, the STM		False	False	False	Unknown		
17.8.3.26.0-1	shall have the possibility to close the connection with the JRU (up to the STM to decide it or not).		False	False	False	Unknown		
17.8.3.26.0-2	shall have the possibility to close the connection with the DRU (up to the STM to decide it or not).		False	False	False	Unknown		
17.8.3.26.0-3	shall have the possibility to close the connection with the TIU (up to the STM to decide it or not).		False	False	False	Unknown		
17.8.3.26.0-4	shall have the possibility to close the connection with the BIU (up to the STM to decide it or not).		False	False	False	Unknown		
17.8.3.26.0-5	shall maintain the connection with the STM Control Function.		False	False	False	Unknown		
17.8.3.26.0-6	shall close the connections with all other ETCS On-board functions		False	False	False	Unknown		
17.8.3.27	17.8.3.27 (SRS: 4.6.3) Transitions Conditions Table:		False	False	False	Unknown		
17.8.3.27.0-1.0-1.0-1	[55]		False	False	False	Unknown		
17.8.3.27.0-1.0-1.0-2	(the ERTMS/ETCS level is "STM") AND (SE mode is required for the STM)		False	True	False	Unknown		
17.8.3.27.0-1.0-2.0-1	[56]		False	True	False	Unknown		
17.8.3.27.0-1.0-2.0-2	(the ERTMS/ETCS level is "STM") AND (SN mode is required for the STM)		False	True	False	Unknown		
17.8.3.27.1	17.8.3.27.1 (SRS: 4.6.2) Transition Table.		False	False	False	Unknown		
17.8.3.27.1.0-1	Mode transition [55] from SN to SE		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.27.1.0-2	Mode transition [56] from SE to SN		False	False	False	Unknown		
17.8.3.28	17.8.3.28 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.28.0-1.0-1.0-1	C9		False	True	False	Unknown		
17.8.3.28.0-1.0-1.0-2	(Level transition location for an STM X to STM Y transition is passed) AND (STM X reports "CS state")		False	True	False	Unknown		
17.8.3.28.1	17.8.3.28.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.28.1.0-1	STM state order for DA		False	False	False	Unknown		
17.8.3.29	17.8.3.29 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.8.3.30	17.8.3.30 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.30.0-1.0-1.0-1	D16		False	True	False	Unknown		
17.8.3.30.0-1.0-1.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2		False	True	False	Unknown		
17.8.3.30.1	17.8.3.30.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.8.3.30.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.8.3.31	17.8.3.31 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.							
17.8.3.32	17.8.3.32 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.8.3.32.0-1	When a connection is established		False	False	False	Unknown		
17.8.3.32.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.8.3.33	17.8.3.33 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.8.3.33.0-1	When a connection is established		False	False	False	Unknown		
17.8.3.33.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.8.3.34	17.8.3.34 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.8.3.34.0-1.0-1.0-1	9		False	False	False	Unknown		
17.8.3.34.0-1.0-1.0-2	ETCS order "Data Available"		False	True	False	Unknown		
17.8.3.34.1	17.8.3.34.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.8.3.34.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.8.3.35	17.8.3.35 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.8.3.35.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.8.3.35.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.8.3.36	17.8.3.36 (FFFIS STM: 7.3.1.7.1) In DA state, a		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	National STM is responsible for the train movement supervision, according to the received national trackside information. A European STM is also responsible for the train movement supervision, according to the received national trackside information, but some parts of the calculations are performed by the ETCS On-board.							
17.8.3.37	17.8.3.37 (SRS: 4.4.17.1.1) The SN mode shall enable an STM to access the following resources via the ERTMS/ETCS on-board equipment; MMI, odometer, train interface and brakes. No supervision functionality is provided by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.8.3.38	17.8.3.38 (SRS: 4.4.16.1.1) The SE mode shall permit reuse of supervision functionality in the ERTMS/ETCS on-board equipment such as MA, most restrictive speed profile and gradient. Furthermore, the SE mode shall enable the STM to access the following resources via the ERTMS/ETCS Onboard; MMI, odometer, train interface and brakes.		False	False	False	Unknown		
17.8.3.39	17.8.3.39 (FFFIS STM: 5.2.5.5) The STM shall be allowed to apply the emergency brake using the direct interface only when the STM is active (in state "Data Available") and the ETCS technical mode is SN or SE.		False	False	False	Unknown		
17.8.3.40	17.8.3.40 (FFFIS STM: 5.2.5.7) The STM shall be allowed to apply the traction cut-off using the direct interface only when the emergency brake application is allowed over the direct interface (see chapter 5.2.5.5).		False	False	False	Unknown		
17.8.3.41	17.8.3.41 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.8.3.41.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.8.3.41.0-	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
2								
17.8.3.41.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-1	No.		False	False	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-3	17.8.3.41.0-3.0-1.0-2.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-14	17.8.3.41.0-3.0-1.0-2.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-2.0-15	17.8.3.41.0-3.0-1.0-2.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-3	17.8.3.41.0-3.0-1.0-3.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-14	17.8.3.41.0-3.0-1.0-3.0-14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-15	17.8.3.41.0-3.0-1.0-3.0-15		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-3	17.8.3.41.0-3.0-1.0-4.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-4	17.8.3.41.0-3.0-1.0-4.0-4		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-5	17.8.3.41.0-3.0-1.0-4.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-4.0-6	17.8.3.41.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-7	17.8.3.41.0-3.0-1.0-4.0-7		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-8	17.8.3.41.0-3.0-1.0-4.0-8		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-9	17.8.3.41.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-10	17.8.3.41.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-11	17.8.3.41.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-12	17.8.3.41.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-13	17.8.3.41.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-14	17.8.3.41.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-15	17.8.3.41.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-4.0-17	17.8.3.41.0-3.0-1.0-4.0-17		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-4.0-18	17.8.3.41.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-3	17.8.3.41.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-4	17.8.3.41.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-5	17.8.3.41.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-6	17.8.3.41.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-7	17.8.3.41.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-8	17.8.3.41.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-9	17.8.3.41.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-11	17.8.3.41.0-3.0-1.0-5.0-11		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-5.0-12	17.8.3.41.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-13	17.8.3.41.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-14	17.8.3.41.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-15	17.8.3.41.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-5.0-18	17.8.3.41.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-3	17.8.3.41.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-5	17.8.3.41.0-3.0-1.0-6.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-9	17.8.3.41.0-3.0-1.0-6.0-9		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-14	17.8.3.41.0-3.0-1.0-6.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-6.0-15	17.8.3.41.0-3.0-1.0-6.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-3	17.8.3.41.0-3.0-1.0-7.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-15	17.8.3.41.0-3.0-1.0-7.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-3	17.8.3.41.0-3.0-1.0-8.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-15	17.8.3.41.0-3.0-1.0-8.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-3	17.8.3.41.0-3.0-1.0-9.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-14	17.8.3.41.0-3.0-1.0-9.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-9.0-15	17.8.3.41.0-3.0-1.0-9.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-3	17.8.3.41.0-3.0-1.0-10.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-10.0-4	17.8.3.41.0-3.0-1.0-10.0-4		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-10.0-5	17.8.3.41.0-3.0-1.0-10.0-5		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-10.0-6	17.8.3.41.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-7	17.8.3.41.0-3.0-1.0-10.0-7		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-8	17.8.3.41.0-3.0-1.0-10.0-8		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-11	17.8.3.41.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-12	17.8.3.41.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-13	17.8.3.41.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-14	17.8.3.41.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-15	17.8.3.41.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-10.0-18	17.8.3.41.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-3	17.8.3.41.0-3.0-1.0-11.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-14	17.8.3.41.0-3.0-1.0-11.0-14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-15	17.8.3.41.0-3.0-1.0-11.0-15		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-3	17.8.3.41.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-4	17.8.3.41.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-5	17.8.3.41.0-3.0-1.0-12.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-12.0-6	17.8.3.41.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-7	17.8.3.41.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-8	17.8.3.41.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-9	17.8.3.41.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-10	17.8.3.41.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-11	17.8.3.41.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-12	17.8.3.41.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-13	17.8.3.41.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-14	17.8.3.41.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-15	17.8.3.41.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-12.0-18	17.8.3.41.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-3	17.8.3.41.0-3.0-1.0-13.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-14	17.8.3.41.0-3.0-1.0-13.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-13.0-15	17.8.3.41.0-3.0-1.0-13.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-13.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-3	17.8.3.41.0-3.0-1.0-14.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-14.0-4	17.8.3.41.0-3.0-1.0-14.0-4		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.8.3.41.0-3.0-1.0-14.0-5	17.8.3.41.0-3.0-1.0-14.0-5		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-14.0-6	17.8.3.41.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-7	17.8.3.41.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-8	17.8.3.41.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-9	17.8.3.41.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-10	17.8.3.41.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-11	17.8.3.41.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-12	17.8.3.41.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-13	17.8.3.41.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-14	17.8.3.41.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-15	17.8.3.41.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-14.0-18	17.8.3.41.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-3	17.8.3.41.0-3.0-1.0-15.0-3		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.8.3.41.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-14	17.8.3.41.0-3.0-1.0-15.0-14		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-15	17.8.3.41.0-3.0-1.0-15.0-15		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-16	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.8.3.41.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.8.3.42	17.8.3.42 (FFFIS STM: 7.4.2.3.1) Once the train has passed the level transition border, the ETCS On-board shall supervise the "STM max speed" (previously sent by the STM in HS state).		False	False	False	Unknown		
17.8.3.43	17.8.3.43 (FFFIS STM: 7.4.2.3.2) Once the STM report "DA state" is received by the ETCS On-board, the ETCS On-board shall stop supervising "STM max speed".		False	False	False	Unknown		
17.8.3.44	17.8.3.44 (FFFIS STM: 7.4.2.2.3) If the ETCS On-board does not receive an "STM max speed" value from the STM in HS state, the ETCS On-board shall not supervise any "STM max speed" at all and the computation of the MRSP is not affected.		False	False	False	Unknown		
17.8.3.45	17.8.3.45 (FFFIS STM: 10.5.3.5) The STM shall		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	send a request with the required status of all DMI objects to the ETCS On-board after switching from CS or HS to DA state.							
17.9	17.9 Transition STM X to STM Y (trip situation)		False	False	False	Unknown		
17.9.1	17.9.1		False	False	False	Unknown		
17.9.1.1	17.9.1.1 The transition STM X to STM Y in trip situation is covered by the description in chapter 17.8: As the ETCS sends a "conditional order CS", the STM X is allowed to stay active until the trip situation of the STM X ends according to the national rules of the STM X.		False	False	False	Unknown		
17.10	17.10 Transition STM X to STM Y (non-leading / sleeping)		False	False	False	Unknown		
17.10.1	17.10.1 Requirements for the announcement of the transition		False	False	False	Unknown		
17.10.1.1	17.10.1.1 (SRS: 5.10.1.1) Every level transition into levels 2, 3, or STM shall be announced to the ERTMS/ETCS on-board equipment via balise group or via the RBC.		False	False	False	Unknown		
17.10.1.2	17.10.1.2 (SRS: 5.10.1.2) A level transition announcement to the ERTMS/ETCS on-board equipment shall consist of an order to execute the level transition at a further location corresponding to the border.		False	False	False	Unknown		
17.10.1.3	17.10.1.3 (SRS: 5.10.2.2) When going to a mixed level area, the level transition announcement and the level transition order at the border shall contain all the supported ERTMS/ETCS levels with a table of priority.		False	False	False	Unknown		
17.10.1.4	17.10.1.4 (SRS: 5.10.2.3) The table of priority shall list all the supported levels from the highest priority level to the lowest one.		False	False	False	Unknown		
17.10.1.4.1	17.10.1.4.1 (SRS: 5.10.2.3.1) Examples: table gives 3, 2, STM X, 1, STM Y, 0. Train is fitted for level 1 and STM X, it will select STM X level.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Train is fitted for level 1 and STM Y, it will select level 1. Train is level 2 fitted, it will select level 2.							
17.10.1.5	17.10.1.5 (SRS: 5.10.2.4) When receiving the information about all ERTMS/ETCS levels that are available, the ERTMS/ETCS on-board equipment shall select in the table the level with the highest priority that the onboard equipment allows to use.		False	False	False	Unknown		
17.10.1.6	17.10.1.6 (SRS: 5.10.2.7) If the ERTMS/ETCS on-board equipment is not fitted for any of the announced levels it shall nevertheless make the transition, to the announced level with the lowest priority.		False	False	False	Unknown		
17.10.1.7	17.10.1.7 (SRS: 5.10.1.3) When the ERTMS/ETCS on-board equipment receives a level transition announcement, it shall immediately inform the driver about the announced level transition.		False	False	False	Unknown		
17.10.1.8	17.10.1.8 (SRS: 5.10.2.6) The ERTMS/ETCS on-board equipment shall inform the driver only about the selected level transition.		False	False	False	Unknown		
17.10.1.9	17.10.1.9 (SRS: 4.7.2) MMI versus mode table (outputs).		False	False	False	Unknown		
17.10.1.9.0-1.0-1.0-1	Output information		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-2	NP		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-3	SB		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-4	SH		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-5	FS		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-6	SR		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.10.1.9.0-1.0-1.0-7	OS		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-8	SL		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-9	NL		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-10	UN		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-11	TR		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-12	PT		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-13	SF		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-14	IS		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-15	SE		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-16	SN		False	True	False	Unknown		
17.10.1.9.0-1.0-1.0-17	RV		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-1	Level transition announcement		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-2	17.10.1.9.0-1.0-2.0-2		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-3	17.10.1.9.0-1.0-2.0-3		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-4	17.10.1.9.0-1.0-2.0-4		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-5	A		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-6	A		False	True	False	Unknown		
17.10.1.9.0-	A		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1.0-2.0-7								
17.10.1.9.0-1.0-2.0-8	17.10.1.9.0-1.0-2.0-8		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-9	A		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-10	A		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-11	A		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-12	A		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-13	17.10.1.9.0-1.0-2.0-13		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-14	17.10.1.9.0-1.0-2.0-14		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-15	A		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-16	A		False	True	False	Unknown		
17.10.1.9.0-1.0-2.0-17	A		False	True	False	Unknown		
17.10.1.10	17.10.1.10 (SRS: 5.10.1.7) As soon as the announcement of the level transition has been received, some data (mainly movement authority and track description data) from the transmission media of the new level shall be accepted, but shall not be used until the level transition is effective.		False	False	False	Unknown		
17.10.1.11	17.10.1.11 (SRS: 5.10.3.11.1) When the announcement is received, a signal shall be sent by the ERTMS/ETCS onboard to the STM specified in the announcement meaning that the STM shall prepare for immediate activation when the level transition location is passed with the maximum safe front end.		False	False	False	Unknown		
17.10.1.12	17.10.1.12 (FFFIS STM: 7.4.1.2.3) STM state		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	order conditions table (ETCS On-board STM Control Function)							
17.10.1.12.0-1.0-1.0-1	A6		False	True	False	Unknown		
17.10.1.12.0-1.0-1.0-2	(ETCS On-board receives an announcement for a level transition to Level STM X) AND (STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3		False	True	False	Unknown		
17.10.1.12.1	17.10.1.12.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.1.12.1.0-1	STM state order for HS		False	False	False	Unknown		
17.10.1.13	17.10.1.13 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.10.1.14	17.10.1.14 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.1.14.0-1.0-1.0-1	C16		False	True	False	Unknown		
17.10.1.14.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.10.1.14.1	17.10.1.14.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.1.14.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.10.1.15	17.10.1.15 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	all connections to the required ETCS On-board functions.							
17.10.1.16	17.10.1.16 (FFFIS STM: 7.6.1.5.1) Exception: If the ETCS technical mode is SL, the STM shall not open a connection to the ETCS DMI function.		False	False	False	Unknown		
17.10.1.17	17.10.1.17 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.10.1.17.0-1	When a connection is established		False	False	False	Unknown		
17.10.1.17.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.10.1.18	17.10.1.18 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.10.1.18.0-1	When a connection is established		False	False	False	Unknown		
17.10.1.18.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.10.1.19	17.10.1.19 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.10.1.19.0-1.0-1.0-1	6		False	False	False	Unknown		
17.10.1.19.0-1.0-1.0-2	ETCS order "Hot Standby"		False	True	False	Unknown		
17.10.1.19.1	17.10.1.19.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.10.1.19.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.10.1.20	17.10.1.20 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.10.1.20.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.10.1.20.0	with each transmitted application message from		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
-2	the STM to the ETCS Function.							
17.10.1.21	17.10.1.21 (FFFIS STM: 7.3.1.6.1) Being in the state HS, the STM shall be able to process the information from or to the national trackside.		False	False	False	Unknown		
17.10.1.22	17.10.1.22 (FFFIS STM: 7.3.1.6.1.1) Note: In HS state, when receiving national trackside information, the STM shall treat this information to be prepared to take in charge the train movement supervision once its state will switch to DA state.		False	False	False	Unknown		
17.10.2	17.10.2 Requirements for the area between announcement and transition border		False	False	False	Unknown		
17.10.2.1	17.10.2.1 (FFFIS STM: 7.3.1.6.2) The STM in HS shall have the possibility to send a "STM max speed" to the STM control function.		False	False	False	Unknown		
17.10.2.2	17.10.2.2 (FFFIS STM: 7.3.1.6.3) The STM in HS shall have the possibility to send an "STM system speed" together with an "STM system distance" to the STM control function.		False	False	False	Unknown		
17.10.2.2.1	17.10.2.2.1 (SRS: 4.4.6.1.3 (Sleeping)) As the engine is remote controlled by the leading engine, its ERTMS/ETCS on-board equipment shall not perform any train movement supervision.		False	False	False	Unknown		
17.10.2.2.2	17.10.2.2.2 (SRS: 4.4.15.1.2 (Non-Leading)) The ERTMS/ETCS on-board equipment shall not perform any train movement supervision in Non-Leading mode.		False	False	False	Unknown		
17.10.2.3	17.10.2.3 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.10.2.3.0-1	When a connection is established		False	False	False	Unknown		
17.10.2.3.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.10.2.4	17.10.2.4 (FFFIS STM: 7.4.2.4.2) The ETCS		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:							
17.10.2.4.0-1	When a connection is established		False	False	False	Unknown		
17.10.2.4.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.10.2.5	17.10.2.5 (FFFIS STM: 10.5.3.3) The STM in Hot Standby shall be allowed to send preliminary request for DMI objects to the ETCS On-board.		False	False	False	Unknown		
17.10.2.6	17.10.2.6 (FFFIS STM: 10.5.3.4) If the ETCS technical mode is SL, the STM shall not send any request for DMI objects to the ETCS On-board DMI function (including preliminary requests).		False	False	False	Unknown		
17.10.2.7	17.10.2.7 (FFFIS STM: 10.5.2.6) The ETCS On-board shall be able to receive preliminary request for DMI objects from an STM being in HS state. The ETCS On-board shall be allowed to ignore this information.		False	False	False	Unknown		
17.10.2.8	17.10.2.8 (FFFIS STM: 10.5.2.6.1) Note: The sending of preliminary request is to allow the DMI function to prepare in background the information to be presented to the driver once the STM switches to Data Available state.		False	False	False	Unknown		
17.10.2.9	17.10.2.9 (FFFIS STM: 10.5.2.6.2) Note: This is to avoid a gap of the display at level transition and to have a one shot up-date of the screen to display STM information at level transition.		False	False	False	Unknown		
17.10.2.9.1	17.10.2.9.1 (SRS: 4.4.6.1.2 (Sleeping)) The desk of a sleeping engine must be closed (since there is no driver, no information shall be shown).		False	False	False	Unknown		
17.10.3	17.10.3 Requirements for the transition		False	False	False	Unknown		
17.10.3.1	17.10.3.1 (SRS: 5.10.1.4) At the level transition border a balise group with an order to switch to		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	the new level immediately shall be placed.							
17.10.3.2	17.10.3.2 (SRS: 5.10.1.5) If the message from the border balise group is not received, the level transition shall still be executed when the estimated front end passes the location given in the announcement.		False	False	False	Unknown		
17.10.3.3	17.10.3.3 (SRS: 5.10.3.11.2) When the level transition location is passed with the maximum safe front end the active STM (STM X) shall be set to standby and the STM specified in the border balise group (STM Y) shall be activated.		False	False	False	Unknown		
17.10.3.4	17.10.3.4 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.4.0-1.0-1.0-1	A4b		False	False	False	Unknown		
17.10.3.4.0-1.0-1.0-2	(Level transition location for an STM X to STM Y transition is passed)		False	True	False	Unknown		
17.10.3.4.1	17.10.3.4.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.4.1.0-1	STM state order for CS		False	False	False	Unknown		
17.10.3.5	17.10.3.5 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.10.3.6	17.10.3.6 (FFFIS STM: 7.4.1.2.4.2) When the state transition order is going to CS state, the STM Control Function shall send an "unconditional order CS state" for the transition A4a, B4a and C4a and a "conditional order CS state" for the transition A4b.		False	False	False	Unknown		
17.10.3.7	17.10.3.7 (FFFIS STM: 7.4.1.3.4) After sending a "conditional order CS" the access to ETCS On-board functions shall remain until the STM		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	report CS is received by the ETCS On-board.							
17.10.3.8	17.10.3.8 (FFFIS STM: 7.3.3.1) When an STM in DA state receives a "conditional CS state transition order", the STM shall be allowed to stay in DA state as long as a national trip situation is processed by this STM.		False	False	False	Unknown		
17.10.3.9	17.10.3.9 (FFFIS STM: 7.3.3.1.1) Justification: When a level transition border is passed, an STM may have to stay active after receiving a deactivation order because the STM is currently processing a national trip situation.		False	False	False	Unknown		
17.10.3.10	17.10.3.10 (FFFIS STM: 7.3.3.2) When an STM in DA state receives a "conditional CS state transition order" and is not going to change to CS state as soon as possible due to a national trip situation (see 7.3.3.1), the STM shall send a "TRIP" message to the STM Control Function		False	False	False	Unknown		
17.10.3.10.0-1	Immediately after the STM has received the "conditional CS state transition order, and		False	False	False	Unknown		
17.10.3.10.0-2	(after sending the first "TRIP" message) every 5 seconds.		False	False	False	Unknown		
17.10.3.11	17.10.3.11 (FFFIS STM: 7.3.3.2.1) Note: The STM shall send the "TRIP" messages with a cycle time of 5 seconds in order to fulfil the time-out check of 10 seconds starting with sending the "conditional CS state transition order" within the STM Control Function.		False	False	False	Unknown		
17.10.3.12	17.10.3.12 (FFFIS STM: 7.3.3.2.1) Note: The STM shall send the "TRIP" messages with a cycle time of 5 seconds in order to fulfil the time-out check of 10 seconds starting with sending the "conditional CS state transition order" within the STM Control Function.		False	False	False	Unknown		
17.10.3.13	17.10.3.13 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.13.0	E16		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
-1.0-1.0-1								
17.10.3.13.0 -1.0-1.0-2	(the STM Control Function has sent a "conditional CS state transition order") AND (the STM does not report CS state or send a "Trip" message within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.10.3.13.1	17.10.3.13.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.13.1 .0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.10.3.14	17.10.3.14 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.14.0 -1.0-1.0-1	F16		False	False	False	Unknown		
17.10.3.14.0 -1.0-1.0-2	(the STM Control Function has already received a "Trip" message from an STM) AND (the STM does not report CS state or send a "Trip" message within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.10.3.14.1	17.10.3.14.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.14.1 .0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.10.3.15	17.10.3.15 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.10.3.15.0 -1.0-1.0-1	4b		False	False	False	Unknown		
17.10.3.15.0 -1.0-1.0-2	ETCS conditional order "Cold Standby"		False	True	False	Unknown		
17.10.3.15.1	17.10.3.15.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.10.3.15.1 .0-1	Transition from DA to CS		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.10.3.16	17.10.3.16 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.10.3.16.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.10.3.16.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.10.3.17	17.10.3.17 (FFFIS STM: 7.3.1.5.1) Being in the state CS, the STM was initialised, tested, configured and is in possession of all required information for operating, but not able to receive a message from the trackside, because the reception is turned off.		False	False	False	Unknown		
17.10.3.18	17.10.3.18 (FFFIS STM: 7.3.4.1) The STM shall always turn off its antenna transmission:-the antenna shall not energise trackside equipment, and shall not read trackside data, and shall not transmit data to trackside, except		False	False	False	Unknown		
17.10.3.18.0-1	in HS and DA state,		False	False	False	Unknown		
17.10.3.18.0-2	in CS state as long as the train is on its national trackside after deactivation by a level transition, and		False	False	False	Unknown		
17.10.3.18.0-3	for test purpose.		False	False	False	Unknown		
17.10.3.19	17.10.3.19 (FFFIS STM: 7.3.4.1.1) Note: When exiting DA or HS state (due to the exit of the level STM area, it may happen that the national trackside goes further than the level transition border. In this case, even if the STM is already in CS state, the STM shall have the possibility to continue to communicate with its national trackside as long as the train is located on the national trackside.		False	False	False	Unknown		
17.10.3.20	17.10.3.20 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.10.3.20.0	x = access is allowed in all Levels		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
-1								
17.10.3.20.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.10.3.20.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-1	No.		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.10.3.20.0	UN		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
-3.0-1.0-1.0-11								
17.10.3.20.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-3	17.10.3.20.0-3.0-1.0-2.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.10.3.20.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5								
17.10.3.20.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-14	17.10.3.20.0-3.0-1.0-2.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.10.3.20.0-3.0-1.0-2.0-15	17.10.3.20.0-3.0-1.0-2.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.10.3.20.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17								
17.10.3.20.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-3	17.10.3.20.0-3.0-1.0-3.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11								
17.10.3.20.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-14	17.10.3.20.0-3.0-1.0-3.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-15	17.10.3.20.0-3.0-1.0-3.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-3	17.10.3.20.0-3.0-1.0-4.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-4	17.10.3.20.0-3.0-1.0-4.0-4		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-5	17.10.3.20.0-3.0-1.0-4.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5								
17.10.3.20.0-3.0-1.0-4.0-6	17.10.3.20.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-7	17.10.3.20.0-3.0-1.0-4.0-7		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-8	17.10.3.20.0-3.0-1.0-4.0-8		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-9	17.10.3.20.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-10	17.10.3.20.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-11	17.10.3.20.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-12	17.10.3.20.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-13	17.10.3.20.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-14	17.10.3.20.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-15	17.10.3.20.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-4.0-	17.10.3.20.0-3.0-1.0-4.0-17		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17								
17.10.3.20.0-3.0-1.0-4.0-18	17.10.3.20.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-3	17.10.3.20.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-4	17.10.3.20.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-5	17.10.3.20.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-6	17.10.3.20.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-7	17.10.3.20.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-8	17.10.3.20.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-9	17.10.3.20.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-11	17.10.3.20.0-3.0-1.0-5.0-11		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11								
17.10.3.20.0-3.0-1.0-5.0-12	17.10.3.20.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-13	17.10.3.20.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-14	17.10.3.20.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-15	17.10.3.20.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-5.0-18	17.10.3.20.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-3	17.10.3.20.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-5	17.10.3.20.0-3.0-1.0-6.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5								
17.10.3.20.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-9	17.10.3.20.0-3.0-1.0-6.0-9		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-14	17.10.3.20.0-3.0-1.0-6.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-15	17.10.3.20.0-3.0-1.0-6.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-6.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17								
17.10.3.20.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-3	17.10.3.20.0-3.0-1.0-7.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11								
17.10.3.20.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-15	17.10.3.20.0-3.0-1.0-7.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-3	17.10.3.20.0-3.0-1.0-8.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
5								
17.10.3.20.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-15	17.10.3.20.0-3.0-1.0-8.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17								
17.10.3.20.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-3	17.10.3.20.0-3.0-1.0-9.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11								
17.10.3.20.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-14	17.10.3.20.0-3.0-1.0-9.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-15	17.10.3.20.0-3.0-1.0-9.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-3	17.10.3.20.0-3.0-1.0-10.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-4	17.10.3.20.0-3.0-1.0-10.0-4		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-5	17.10.3.20.0-3.0-1.0-10.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-5								
17.10.3.20.0-3.0-1.0-10.0-6	17.10.3.20.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-7	17.10.3.20.0-3.0-1.0-10.0-7		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-8	17.10.3.20.0-3.0-1.0-10.0-8		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-11	17.10.3.20.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-12	17.10.3.20.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-13	17.10.3.20.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-14	17.10.3.20.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-15	17.10.3.20.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-17								
17.10.3.20.0-3.0-1.0-10.0-18	17.10.3.20.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-3	17.10.3.20.0-3.0-1.0-11.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-11								
17.10.3.20.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-14	17.10.3.20.0-3.0-1.0-11.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-15	17.10.3.20.0-3.0-1.0-11.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-3	17.10.3.20.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-4	17.10.3.20.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-	17.10.3.20.0-3.0-1.0-12.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-5								
17.10.3.20.0-3.0-1.0-12.0-6	17.10.3.20.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-7	17.10.3.20.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-8	17.10.3.20.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-9	17.10.3.20.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-10	17.10.3.20.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-11	17.10.3.20.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-12	17.10.3.20.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-13	17.10.3.20.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-14	17.10.3.20.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-15	17.10.3.20.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-12.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-17								
17.10.3.20.0-3.0-1.0-12.0-18	17.10.3.20.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-3	17.10.3.20.0-3.0-1.0-13.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-11								
17.10.3.20.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-14	17.10.3.20.0-3.0-1.0-13.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-15	17.10.3.20.0-3.0-1.0-13.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-3	17.10.3.20.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-4	17.10.3.20.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-	17.10.3.20.0-3.0-1.0-14.0-5		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-5								
17.10.3.20.0-3.0-1.0-14.0-6	17.10.3.20.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-7	17.10.3.20.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-8	17.10.3.20.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-9	17.10.3.20.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-10	17.10.3.20.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-11	17.10.3.20.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-12	17.10.3.20.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-13	17.10.3.20.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-14	17.10.3.20.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-15	17.10.3.20.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-14.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-17								
17.10.3.20.0-3.0-1.0-14.0-18	17.10.3.20.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-3	17.10.3.20.0-3.0-1.0-15.0-3		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-11								
17.10.3.20.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-14	17.10.3.20.0-3.0-1.0-15.0-14		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-15	17.10.3.20.0-3.0-1.0-15.0-15		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-16	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.10.3.20.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.10.3.21	17.10.3.21 (FFFIS STM: 7.6.3.2) When an STM in DA state or HS state receives an order to go in CS state, the STM		False	False	False	Unknown		
17.10.3.21.0-1	shall have the possibility to close the connection with the JRU (up to the STM to decide it or not).		False	False	False	Unknown		
17.10.3.21.0-2	shall have the possibility to close the connection with the DRU (up to the STM to decide it or not).		False	False	False	Unknown		
17.10.3.21.0-3	shall have the possibility to close the connection with the TIU (up to the STM to decide it or not).		False	False	False	Unknown		
17.10.3.21.0-4	shall have the possibility to close the connection with the BIU (up to the STM to		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	decide it or not).							
17.10.3.21.0-5	shall maintain the connection with the STM Control Function.		False	False	False	Unknown		
17.10.3.21.0-6	shall close the connections with all other ETCS On-board functions		False	False	False	Unknown		
17.10.3.22	17.10.3.22 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.22.0-1.0-1.0-1	C9		False	False	False	Unknown		
17.10.3.22.0-1.0-1.0-2	(Level transition location for an STM X to STM Y transition is passed) AND (STM X reports "CS state")		False	True	False	Unknown		
17.10.3.22.1	17.10.3.22.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.22.1.0-1	STM state order for DA		False	False	False	Unknown		
17.10.3.23	17.10.3.23 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.10.3.24	17.10.3.24 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.24.0-1.0-1.0-1	D16		False	False	False	Unknown		
17.10.3.24.0-1.0-1.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2		False	True	False	Unknown		
17.10.3.24.1	17.10.3.24.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.10.3.24.1	STM state order for FA in case the STM does		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
.0-1	not change the state within the required time							
17.10.3.25	17.10.3.25 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.		False	False	False	Unknown		
17.10.3.26	17.10.3.26 (FFFIS STM: 7.6.1.5.1) Exception: If the ETCS technical mode is SL, the STM shall not open a connection to the ETCS DMI function.		False	False	False	Unknown		
17.10.3.27	17.10.3.27 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.10.3.27.0-1	When a connection is established		False	False	False	Unknown		
17.10.3.27.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.10.3.28	17.10.3.28 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.10.3.28.0-1	When a connection is established		False	False	False	Unknown		
17.10.3.28.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.10.3.29	17.10.3.29 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.10.3.29.0-1.0-1.0-1	9		False	False	False	Unknown		
17.10.3.29.0-1.0-1.0-2	ETCS order "Data Available"		False	True	False	Unknown		
17.10.3.29.1	17.10.3.29.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.10.3.29.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.10.3.30	17.10.3.30 (FFFIS STM: 7.3.4.4) The STM shall		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	report its current state to any ETCS Function							
17.10.3.30.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.10.3.30.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.10.3.31	17.10.3.31 (FFFIS STM: 7.3.1.7.1) In DA state, a National STM is responsible for the train movement supervision, according to the received national trackside information. A European STM is also responsible for the train movement supervision, according to the received national trackside information, but some parts of the calculations are performed by the ETCS On-board.		False	False	False	Unknown		
17.10.3.32	17.10.3.32 (SRS: 4.4.6.1.9 (Sleeping)) When the ERTMS/ETCS level is STM, the ERTMS/ETCS Onboard equipment shall be responsible for providing the STM with access to various resources such as MMI, Odometer, Juridical Recorder and train interface.		False	False	False	Unknown		
17.10.3.33	17.10.3.33 (SRS: 4.4.15.1.7 (Non-Leading)) When the ERTMS/ETCS level is STM, the ERTMS/ETCS Onboard equipment shall be responsible for providing the STM with access to various resources such as MMI, Odometer, Juridical Recorder and train interface.		False	False	False	Unknown		
17.10.3.34	17.10.3.34 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.10.3.34.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.10.3.34.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.10.3.34.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-	No.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.10.3.34.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-	PT		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.10.3.34.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-3	17.10.3.34.0-3.0-1.0-2.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.10.3.34.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.10.3.34.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-14	17.10.3.34.0-3.0-1.0-2.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-15	17.10.3.34.0-3.0-1.0-2.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-	2		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.10.3.34.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-3	17.10.3.34.0-3.0-1.0-3.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.10.3.34.0-3.0-1.0-3.0-14	17.10.3.34.0-3.0-1.0-3.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-15	17.10.3.34.0-3.0-1.0-3.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-3	17.10.3.34.0-3.0-1.0-4.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-4	17.10.3.34.0-3.0-1.0-4.0-4		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-5	17.10.3.34.0-3.0-1.0-4.0-5		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-6	17.10.3.34.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-7	17.10.3.34.0-3.0-1.0-4.0-7		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.10.3.34.0-3.0-1.0-4.0-8	17.10.3.34.0-3.0-1.0-4.0-8		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-9	17.10.3.34.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-10	17.10.3.34.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-11	17.10.3.34.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-12	17.10.3.34.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-13	17.10.3.34.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-14	17.10.3.34.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-15	17.10.3.34.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-17	17.10.3.34.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-4.0-18	17.10.3.34.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-	4		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.10.3.34.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-3	17.10.3.34.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-4	17.10.3.34.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-5	17.10.3.34.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-6	17.10.3.34.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-7	17.10.3.34.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-8	17.10.3.34.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-9	17.10.3.34.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-11	17.10.3.34.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-12	17.10.3.34.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-13	17.10.3.34.0-3.0-1.0-5.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.10.3.34.0-3.0-1.0-5.0-14	17.10.3.34.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-15	17.10.3.34.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-5.0-18	17.10.3.34.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-3	17.10.3.34.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-5	17.10.3.34.0-3.0-1.0-6.0-5		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.10.3.34.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-9	17.10.3.34.0-3.0-1.0-6.0-9		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-14	17.10.3.34.0-3.0-1.0-6.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-15	17.10.3.34.0-3.0-1.0-6.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-	6		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.10.3.34.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-3	17.10.3.34.0-3.0-1.0-7.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.10.3.34.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-15	17.10.3.34.0-3.0-1.0-7.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-3	17.10.3.34.0-3.0-1.0-8.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.10.3.34.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-15	17.10.3.34.0-3.0-1.0-8.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.10.3.34.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-	8		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.10.3.34.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-3	17.10.3.34.0-3.0-1.0-9.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.10.3.34.0-3.0-1.0-9.0-14	17.10.3.34.0-3.0-1.0-9.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-15	17.10.3.34.0-3.0-1.0-9.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-3	17.10.3.34.0-3.0-1.0-10.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-4	17.10.3.34.0-3.0-1.0-10.0-4		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-5	17.10.3.34.0-3.0-1.0-10.0-5		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-6	17.10.3.34.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-7	17.10.3.34.0-3.0-1.0-10.0-7		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-7								
17.10.3.34.0-3.0-1.0-10.0-8	17.10.3.34.0-3.0-1.0-10.0-8		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-11	17.10.3.34.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-12	17.10.3.34.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-13	17.10.3.34.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-14	17.10.3.34.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-15	17.10.3.34.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-10.0-18	17.10.3.34.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-	10		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-1								
17.10.3.34.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-3	17.10.3.34.0-3.0-1.0-11.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-13								
17.10.3.34.0-3.0-1.0-11.0-14	17.10.3.34.0-3.0-1.0-11.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-15	17.10.3.34.0-3.0-1.0-11.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-3	17.10.3.34.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-4	17.10.3.34.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-5	17.10.3.34.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-6	17.10.3.34.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-	17.10.3.34.0-3.0-1.0-12.0-7		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-7								
17.10.3.34.0-3.0-1.0-12.0-8	17.10.3.34.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-9	17.10.3.34.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-10	17.10.3.34.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-11	17.10.3.34.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-12	17.10.3.34.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-13	17.10.3.34.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-14	17.10.3.34.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-15	17.10.3.34.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-12.0-18	17.10.3.34.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-	12		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-1								
17.10.3.34.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-3	17.10.3.34.0-3.0-1.0-13.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-13								
17.10.3.34.0-3.0-1.0-13.0-14	17.10.3.34.0-3.0-1.0-13.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-15	17.10.3.34.0-3.0-1.0-13.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-3	17.10.3.34.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-4	17.10.3.34.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-5	17.10.3.34.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-6	17.10.3.34.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-	17.10.3.34.0-3.0-1.0-14.0-7		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-7								
17.10.3.34.0-3.0-1.0-14.0-8	17.10.3.34.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-9	17.10.3.34.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-10	17.10.3.34.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-11	17.10.3.34.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-12	17.10.3.34.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-13	17.10.3.34.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-14	17.10.3.34.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-15	17.10.3.34.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-14.0-18	17.10.3.34.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-	14		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-1								
17.10.3.34.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-3	17.10.3.34.0-3.0-1.0-15.0-3		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-13								
17.10.3.34.0-3.0-1.0-15.0-14	17.10.3.34.0-3.0-1.0-15.0-14		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-15	17.10.3.34.0-3.0-1.0-15.0-15		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-16	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.10.3.34.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.10.3.35	17.10.3.35 (FFFIS STM: 10.5.3.5) The STM shall send a request with the required status of all DMI objects to the ETCS On-board after switching from CS or HS to DA state.		False	False	False	Unknown		
17.10.3.36	17.10.3.36 (FFFIS STM: 10.5.3.4) If the ETCS technical mode is SL, the STM shall not send any request for DMI objects to the ETCS On-board DMI function (including preliminary requests).		False	False	False	Unknown		
17.10.3.37	17.10.3.37 (SRS: 4.4.6.1.2 (Sleeping)) The desk of a sleeping engine must be closed (since there is no driver, no information shall be shown).		False	False	False	Unknown		
17.11	17.11 Transition at Start of Mission (except for non-leading / sleeping)		False	False	False	Unknown		
17.11.1	17.11.1 Requirements for the activation of the STM at Start of Mission		False	False	False	Unknown		
17.11.1.0-1	Note: The requirements for the ETCS On-board and the STM which are necessary to describe the procedure for the STM to go to CS state are not included here.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.11.1.1	17.11.1.1 (FFFIS STM: 7.4.1.1.12) The STM Control Function shall send to the STM the current ETCS technical mode		False	False	False	Unknown		
17.11.1.1.0-1	when the connection between the STM and the STM Control Function is established, and		False	False	False	Unknown		
17.11.1.1.0-2	whenever the ETCS technical mode changes.		False	False	False	Unknown		
17.11.1.2	17.11.1.2 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.11.1.2.0-1.0-1.0-1	B6		False	False	False	Unknown		
17.11.1.2.0-1.0-1.0-2	(ETCS technical mode is SB) AND (the driver has selected STM X) AND (valid level of the ETCS On-board is Level STM) AND (STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3		False	True	False	Unknown		
17.11.1.2.1	17.11.1.2.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.11.1.2.1.0-1	STM state order for HS		False	False	False	Unknown		
17.11.1.3	17.11.1.3 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.11.1.4	17.11.1.4 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.11.1.4.0-1.0-1.0-1	C16		False	False	False	Unknown		
17.11.1.4.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	of 10 seconds) see 7.4.1.2.3.2							
17.11.1.4.1	17.11.1.4.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.11.1.4.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.11.1.5	17.11.1.5 (FFFIS STM: 7.4.1.3.1) The STM Control Function shall consider a state transition order as effective immediately after sending the state transition order to the STM.		False	False	False	Unknown		
17.11.1.6	17.11.1.6 (FFFIS STM: 7.4.1.3.2) The STM Control Function shall not send a state transition order to an STM, as long as this STM has not reported the state corresponding to the previous state transition order.		False	False	False	Unknown		
17.11.1.7	17.11.1.7 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.11.1.7.0-1.0-1.0-1	6		False	False	False	Unknown		
17.11.1.7.0-1.0-1.0-2	ETCS order "Hot Standby"		False	True	False	Unknown		
17.11.1.7.1	17.11.1.7.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.11.1.7.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.11.1.8	17.11.1.8 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.11.1.8.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.11.1.8.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.11.1.9	17.11.1.9 (FFFIS STM: 7.3.1.6.1) Being in the state HS, the STM shall be able to process the information from or to the national trackside.		False	False	False	Unknown		
17.11.1.10	17.11.1.10 (FFFIS STM: 7.3.1.6.1.1) Note: In HS state, when receiving national trackside		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	information, the STM shall treat this information to be prepared to take in charge the train movement supervision once its state will switch to DA state.							
17.11.1.11	17.11.1.11 (FFFIS STM: 7.4.2.1.1) At the Start of Mission procedure, the ETCS On-board shall propose the STM mode to be acknowledged by the driver only when the selected STM has reported HS State to the ETCS On-board.		False	False	False	Unknown		
17.11.1.12	17.11.1.12 (SRS: 4.6.3) Transitions Conditions Table:		False	False	False	Unknown		
17.11.1.12.0-1.0-1.0-1	[57]		False	False	False	Unknown		
17.11.1.12.0-1.0-1.0-2	(the ERTMS/ETCS level is "STM") AND (SE mode is required for the STM) AND (driver has selected Start)		False	True	False	Unknown		
17.11.1.12.0-1.0-2.0-1	[58]		False	True	False	Unknown		
17.11.1.12.0-1.0-2.0-2	(the ERTMS/ETCS level is "STM") AND (SN mode is required for the STM) AND (driver has selected Start)		False	True	False	Unknown		
17.11.1.12.1	17.11.1.12.1 (SRS: 4.6.2) Transition Table.		False	False	False	Unknown		
17.11.1.12.1.0-1	Mode transition [57] from SB to SE		False	False	False	Unknown		
17.11.1.12.1.0-2	Mode transition [58] from SB to SN		False	False	False	Unknown		
17.11.1.13	17.11.1.13 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.11.1.13.0-1.0-1.0-1	D9		False	False	False	Unknown		
17.11.1.13.0-1.0-1.0-2	(ETCS technical mode changes from SB to SN or SE) AND (valid level of the ETCS On-board is Level STM) AND (STM X reports "HS state")		False	True	False	Unknown		
17.11.1.13.1	17.11.1.13.1 (FFFIS STM: 7.4.1.2.2) STM state		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	order table (ETCS On-board STM Control Function)							
17.11.1.13.1.0-1	STM state order for DA		False	False	False	Unknown		
17.11.1.14	17.11.1.14 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.11.1.15	17.11.1.15 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.11.1.15.0-1.0-1.0-1	D16		False	False	False	Unknown		
17.11.1.15.0-1.0-1.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2		False	True	False	Unknown		
17.11.1.15.1	17.11.1.15.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.11.1.15.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.11.1.16	17.11.1.16 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.11.1.16.0-1.0-1.0-1	9		False	False	False	Unknown		
17.11.1.16.0-1.0-1.0-2	ETCS order "Data Available"		False	True	False	Unknown		
17.11.1.16.1	17.11.1.16.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.11.1.16.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.11.1.17	17.11.1.17 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.11.1.17.0	when the connection between the STM and the		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
-1	ETCS Function is established, and							
17.11.1.17.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.11.1.18	17.11.1.18 (FFFIS STM: 7.3.1.7.1) In DA state, a National STM is responsible for the train movement supervision, according to the received national trackside information. A European STM is also responsible for the train movement supervision, according to the received national trackside information, but some parts of the calculations are performed by the ETCS On-board.		False	False	False	Unknown		
17.11.1.19	17.11.1.19 (SRS: 4.4.17.1.1) The SN mode shall enable an STM to access the following resources via the ERTMS/ETCS on-board equipment; MMI, odometer, train interface and brakes. No supervision functionality is provided by the ERTMS/ETCS on-board equipment.		False	False	False	Unknown		
17.11.1.20	17.11.1.20 (SRS: 4.4.16.1.1) The SE mode shall permit reuse of supervision functionality in the ERTMS/ETCS on-board equipment such as MA, most restrictive speed profile and gradient. Furthermore, the SE mode shall enable the STM to access the following resources via the ERTMS/ETCS Onboard; MMI, odometer, train interface and brakes.		False	False	False	Unknown		
17.11.1.21	17.11.1.21 (FFFIS STM: 5.2.5.5) The STM shall be allowed to apply the emergency brake using the direct interface only when the STM is active (in state "Data Available") and the ETCS technical mode is SN or SE.		False	False	False	Unknown		
17.11.1.22	17.11.1.22 (FFFIS STM: 5.2.5.7) The STM shall be allowed to apply the traction cut-off using the direct interface only when the emergency brake application is allowed over the direct interface (see chapter 5.2.5.5).		False	False	False	Unknown		
17.11.1.23	17.11.1.23 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	functions according to the following table:							
17.11.1.23.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.11.1.23.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.11.1.23.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-1	No.		False	False	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-	NL		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10								
17.11.1.23.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-3	17.11.1.23.0-3.0-1.0-2.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
4								
17.11.1.23.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-14	17.11.1.23.0-3.0-1.0-2.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-15	17.11.1.23.0-3.0-1.0-2.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
16								
17.11.1.23.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-3	17.11.1.23.0-3.0-1.0-3.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10								
17.11.1.23.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-14	17.11.1.23.0-3.0-1.0-3.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-3.0-15	17.11.1.23.0-3.0-1.0-3.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-3	17.11.1.23.0-3.0-1.0-4.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-4.0-4	17.11.1.23.0-3.0-1.0-4.0-4		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
4								
17.11.1.23.0-3.0-1.0-4.0-5	17.11.1.23.0-3.0-1.0-4.0-5		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-6	17.11.1.23.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-7	17.11.1.23.0-3.0-1.0-4.0-7		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-8	17.11.1.23.0-3.0-1.0-4.0-8		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-9	17.11.1.23.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-10	17.11.1.23.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-11	17.11.1.23.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-12	17.11.1.23.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-13	17.11.1.23.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-14	17.11.1.23.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-15	17.11.1.23.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-	s		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
16								
17.11.1.23.0-3.0-1.0-4.0-17	17.11.1.23.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-4.0-18	17.11.1.23.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-3	17.11.1.23.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-4	17.11.1.23.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-5	17.11.1.23.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-6	17.11.1.23.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-7	17.11.1.23.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-8	17.11.1.23.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-9	17.11.1.23.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-	s		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10								
17.11.1.23.0-3.0-1.0-5.0-11	17.11.1.23.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-12	17.11.1.23.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-13	17.11.1.23.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-14	17.11.1.23.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-15	17.11.1.23.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-5.0-18	17.11.1.23.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-3	17.11.1.23.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
4								
17.11.1.23.0-3.0-1.0-6.0-5	17.11.1.23.0-3.0-1.0-6.0-5		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-9	17.11.1.23.0-3.0-1.0-6.0-9		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-14	17.11.1.23.0-3.0-1.0-6.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-15	17.11.1.23.0-3.0-1.0-6.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
16								
17.11.1.23.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-3	17.11.1.23.0-3.0-1.0-7.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10								
17.11.1.23.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-15	17.11.1.23.0-3.0-1.0-7.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-3	17.11.1.23.0-3.0-1.0-8.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
4								
17.11.1.23.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-15	17.11.1.23.0-3.0-1.0-8.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
16								
17.11.1.23.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-3	17.11.1.23.0-3.0-1.0-9.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10								
17.11.1.23.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-14	17.11.1.23.0-3.0-1.0-9.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-9.0-15	17.11.1.23.0-3.0-1.0-9.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-3	17.11.1.23.0-3.0-1.0-10.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.11.1.23.0-3.0-1.0-10.0-4	17.11.1.23.0-3.0-1.0-10.0-4		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-4								
17.11.1.23.0-3.0-1.0-10.0-5	17.11.1.23.0-3.0-1.0-10.0-5		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-6	17.11.1.23.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-7	17.11.1.23.0-3.0-1.0-10.0-7		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-8	17.11.1.23.0-3.0-1.0-10.0-8		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-11	17.11.1.23.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-12	17.11.1.23.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-13	17.11.1.23.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-14	17.11.1.23.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-15	17.11.1.23.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-16								
17.11.1.23.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-10.0-18	17.11.1.23.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-3	17.11.1.23.0-3.0-1.0-11.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-10								
17.11.1.23.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-14	17.11.1.23.0-3.0-1.0-11.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-15	17.11.1.23.0-3.0-1.0-11.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-3	17.11.1.23.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-	17.11.1.23.0-3.0-1.0-12.0-4		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-4								
17.11.1.23.0-3.0-1.0-12.0-5	17.11.1.23.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-6	17.11.1.23.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-7	17.11.1.23.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-8	17.11.1.23.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-9	17.11.1.23.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-10	17.11.1.23.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-11	17.11.1.23.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-12	17.11.1.23.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-13	17.11.1.23.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-14	17.11.1.23.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-15	17.11.1.23.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-16								
17.11.1.23.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-12.0-18	17.11.1.23.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-3	17.11.1.23.0-3.0-1.0-13.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-10								
17.11.1.23.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-14	17.11.1.23.0-3.0-1.0-13.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-15	17.11.1.23.0-3.0-1.0-13.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-16	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-3	17.11.1.23.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-4	17.11.1.23.0-3.0-1.0-14.0-4		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-4								
17.11.1.23.0-3.0-1.0-14.0-5	17.11.1.23.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-6	17.11.1.23.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-7	17.11.1.23.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-8	17.11.1.23.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-9	17.11.1.23.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-10	17.11.1.23.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-11	17.11.1.23.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-12	17.11.1.23.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-13	17.11.1.23.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-14	17.11.1.23.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-15	17.11.1.23.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-16								
17.11.1.23.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-14.0-18	17.11.1.23.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-3	17.11.1.23.0-3.0-1.0-15.0-3		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-10								
17.11.1.23.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-14	17.11.1.23.0-3.0-1.0-15.0-14		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-15	17.11.1.23.0-3.0-1.0-15.0-15		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-16	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.11.1.23.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.12	17.12 Transition Start of Mission (non-leading)		False	False	False	Unknown		
17.12.1	17.12.1 Requirements for the activation of the STM at Start of Mission		False	False	False	Unknown		
17.12.1.1	17.12.1.1 (SRS: 4.6.3) Transitions Conditions Table:		False	False	False	Unknown		
17.12.1.1.0-1.0-1.0-1	[46]		False	True	False	Unknown		
17.12.1.1.0-1.0-1.0-2	(Driver selects NON LEADING) AND (train is at standstill)		False	True	False	Unknown		
17.12.1.1.1	17.12.1.1.1 (SRS: 4.6.2) Transition Table.		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.12.1.1.1.0-1	Mode transition [46] from SB to NL		False	False	False	Unknown		
17.12.1.2	17.12.1.2 (FFFIS STM: 7.4.1.1.12) The STM Control Function shall send to the STM the current ETCS technical mode		False	False	False	Unknown		
17.12.1.2.0-1	when the connection between the STM and the STM Control Function is established, and		False	False	False	Unknown		
17.12.1.2.0-2	whenever the ETCS technical mode changes.		False	False	False	Unknown		
17.12.1.3	17.12.1.3 (FFFIS STM: 7.3.1.3.4) If an STM in Configuration State detects that the ETCS On-board is in the technical mode Non-Leading or Sleeping, the STM shall request to go to CS state.		False	False	False	Unknown		
17.12.1.4	17.12.1.4 (FFFIS STM: 7.3.1.3.4.1) Justification: This allows STM operation on Non-Leading or Sleeping cab without data entry.		False	False	False	Unknown		
17.12.1.5	17.12.1.5 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.5.0-1.0-1.0-1	A4a		False	True	False	Unknown		
17.12.1.5.0-1.0-1.0-2	("Request CS state" received from STM)		False	True	False	Unknown		
17.12.1.5.1	17.12.1.5.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.5.1.0-1	STM state order for CS		False	False	False	Unknown		
17.12.1.6	17.12.1.6 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.12.1.7	17.12.1.7 (FFFIS STM: 7.4.1.2.4.2) When the		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	state transition order is going to CS state, the STM Control Function shall send an "unconditional order CS state" for the transition A4a, B4a and C4a and a "conditional order CS state" for the transition A4b.							
17.12.1.8	17.12.1.8 (FFFIS STM: 7.4.1.3.1) The STM Control Function shall consider a state transition order as effective immediately after sending the state transition order to the STM.		False	False	False	Unknown		
17.12.1.9	17.12.1.9 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.9.0-1.0-1.0-1	C16		False	True	False	Unknown		
17.12.1.9.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.12.1.9.1	17.12.1.9.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.9.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.12.1.10	17.12.1.10 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.12.1.10.0-1.0-1.0-1	4a		False	True	False	Unknown		
17.12.1.10.0-1.0-1.0-2	ETCS unconditional order "Cold Standby"		False	True	False	Unknown		
17.12.1.10.1	17.12.1.10.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.12.1.10.1.0-1	Transition from CO to CS		False	False	False	Unknown		
17.12.1.11	17.12.1.11 (FFFIS STM: 7.3.4.4) The STM shall		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	report its current state to any ETCS Function							
17.12.1.11.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.12.1.11.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.12.1.12	17.12.1.12 (FFFIS STM: 7.3.1.5.1) Being in the state CS, the STM was initialised, tested, configured and is in possession of all required information for operating, but not able to receive a message from the trackside, because the reception is turned off.		False	False	False	Unknown		
17.12.1.13	17.12.1.13 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.13.0-1.0-1.0-1	C6		False	False	False	Unknown		
17.12.1.13.0-1.0-1.0-2	(ETCS technical mode has changed from SB to NL or SL) AND (stored level of the ETCS On-board is Level STM X) AND (STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3		False	True	False	Unknown		
17.12.1.13.1	17.12.1.13.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.13.1.0-1	STM state order for HS		False	False	False	Unknown		
17.12.1.14	17.12.1.14 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.12.1.15	17.12.1.15 (FFFIS STM: 7.4.1.3.1) The STM Control Function shall consider a state transition order as effective immediately after sending the state transition order to the STM.		False	False	False	Unknown		
17.12.1.16	17.12.1.16 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Control Function)							
17.12.1.16.0-1.0-1.0-1	C16		False	False	False	Unknown		
17.12.1.16.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.12.1.16.1	17.12.1.16.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.16.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.12.1.17	17.12.1.17 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.		False	False	False	Unknown		
17.12.1.18	17.12.1.18 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.12.1.18.0-1	When a connection is established		False	False	False	Unknown		
17.12.1.18.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.12.1.19	17.12.1.19 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.12.1.19.0-1	When a connection is established		False	False	False	Unknown		
17.12.1.19.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.12.1.20	17.12.1.20 (FFFIS STM: 7.3.2.2) Transitions		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	conditions table							
17.12.1.20.0-1.0-1.0-1	6		False	False	False	Unknown		
17.12.1.20.0-1.0-1.0-2	ETCS order "Hot Standby"		False	True	False	Unknown		
17.12.1.20.1	17.12.1.20.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.12.1.20.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.12.1.21	17.12.1.21 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.12.1.21.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.12.1.21.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.12.1.22	17.12.1.22 (FFFIS STM: 7.3.1.6.1) Being in the state HS, the STM shall be able to process the information from or to the national trackside.		False	False	False	Unknown		
17.12.1.23	17.12.1.23 (FFFIS STM: 7.3.1.6.1.1) Note: In HS state, when receiving national trackside information, the STM shall treat this information to be prepared to take in charge the train movement supervision once its state will switch to DA state.		False	False	False	Unknown		
17.12.1.24	17.12.1.24 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.24.0-1.0-1.0-1	E9		False	False	False	Unknown		
17.12.1.24.0-1.0-1.0-2	(ETCS technical mode has changed from SB to NL or SL) AND (stored level of the ETCS On-board is Level STM X) AND (STM X reports "HS state")		False	True	False	Unknown		
17.12.1.24.1	17.12.1.24.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.12.1.24.1.0-1	STM state order for DA		False	False	False	Unknown		
17.12.1.25	17.12.1.25 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.12.1.26	17.12.1.26 (FFFIS STM: 7.4.1.3.1) The STM Control Function shall consider a state transition order as effective immediately after sending the state transition order to the STM.		False	False	False	Unknown		
17.12.1.27	17.12.1.27 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.27.0-1.0-1.0-1	D16		False	False	False	Unknown		
17.12.1.27.0-1.0-1.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2		False	True	False	Unknown		
17.12.1.27.1	17.12.1.27.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.12.1.27.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.12.1.28	17.12.1.28 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.12.1.28.0-1.0-1.0-1	9		False	False	False	Unknown		
17.12.1.28.0-1.0-1.0-2	ETCS order "Data Available"		False	True	False	Unknown		
17.12.1.28.1	17.12.1.28.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.12.1.28.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.12.1.29	17.12.1.29 (FFFIS STM: 7.3.4.4) The STM shall		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	report its current state to any ETCS Function							
17.12.1.29.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.12.1.29.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.12.1.30	17.12.1.30 (FFFIS STM: 7.3.1.7.1) In DA state, a National STM is responsible for the train movement supervision, according to the received national trackside information. A European STM is also responsible for the train movement supervision, according to the received national trackside information, but some parts of the calculations are performed by the ETCS On-board.		False	False	False	Unknown		
17.12.1.31	17.12.1.31 (SRS: 4.4.15.1.7 (Non-Leading)) When the ERTMS/ETCS level is STM, the ERTMS/ETCS Onboard equipment shall be responsible for providing the STM with access to various resources such as MMI, Odometer, Juridical Recorder and train interface.		False	False	False	Unknown		
17.12.1.32	17.12.1.32 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.12.1.32.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.12.1.32.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.12.1.32.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.12.1.32.0-3.0-1.0-1.0-1	No.		False	False	False	Unknown		
17.12.1.32.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-1.0-	NP		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.12.1.32.0 -3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-7	SR		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.12.1.32.0 -3.0-1.0-1.0-	IS		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.12.1.32.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-1	1		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-3	17.12.1.32.0-3.0-1.0-2.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
9								
17.12.1.32.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-14	17.12.1.32.0-3.0-1.0-2.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-2.0-15	17.12.1.32.0-3.0-1.0-2.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-3	17.12.1.32.0-3.0-1.0-3.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.12.1.32.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-14	17.12.1.32.0-3.0-1.0-3.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-3.0-15	17.12.1.32.0-3.0-1.0-3.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.12.1.32.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-1	3		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-3	17.12.1.32.0-3.0-1.0-4.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-4.0-4	17.12.1.32.0-3.0-1.0-4.0-4		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-4.0-5	17.12.1.32.0-3.0-1.0-4.0-5		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-4.0-6	17.12.1.32.0-3.0-1.0-4.0-6		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-4.0-7	17.12.1.32.0-3.0-1.0-4.0-7		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-4.0-8	17.12.1.32.0-3.0-1.0-4.0-8		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-4.0-9	17.12.1.32.0-3.0-1.0-4.0-9		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
9								
17.12.1.32.0-3.0-1.0-4.0-10	17.12.1.32.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-11	17.12.1.32.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-12	17.12.1.32.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-13	17.12.1.32.0-3.0-1.0-4.0-13		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-14	17.12.1.32.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-15	17.12.1.32.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-17	17.12.1.32.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-4.0-18	17.12.1.32.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-3	17.12.1.32.0-3.0-1.0-5.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.12.1.32.0-3.0-1.0-5.0-4	17.12.1.32.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-5	17.12.1.32.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-6	17.12.1.32.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-7	17.12.1.32.0-3.0-1.0-5.0-7		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-8	17.12.1.32.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-9	17.12.1.32.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-11	17.12.1.32.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-12	17.12.1.32.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-13	17.12.1.32.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-14	17.12.1.32.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-15	17.12.1.32.0-3.0-1.0-5.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.12.1.32.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-5.0-18	17.12.1.32.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-1	5		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-3	17.12.1.32.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-5	17.12.1.32.0-3.0-1.0-6.0-5		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-9	17.12.1.32.0-3.0-1.0-6.0-9		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
9								
17.12.1.32.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-14	17.12.1.32.0-3.0-1.0-6.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-6.0-15	17.12.1.32.0-3.0-1.0-6.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-3	17.12.1.32.0-3.0-1.0-7.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.12.1.32.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-15	17.12.1.32.0-3.0-1.0-7.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.12.1.32.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-1	7		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-3	17.12.1.32.0-3.0-1.0-8.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
9								
17.12.1.32.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-15	17.12.1.32.0-3.0-1.0-8.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-3	17.12.1.32.0-3.0-1.0-9.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
3								
17.12.1.32.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-14	17.12.1.32.0-3.0-1.0-9.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-9.0-15	17.12.1.32.0-3.0-1.0-9.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15								
17.12.1.32.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-1	9		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-3	17.12.1.32.0-3.0-1.0-10.0-3		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-10.0-4	17.12.1.32.0-3.0-1.0-10.0-4		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-10.0-5	17.12.1.32.0-3.0-1.0-10.0-5		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-10.0-6	17.12.1.32.0-3.0-1.0-10.0-6		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-10.0-7	17.12.1.32.0-3.0-1.0-10.0-7		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-10.0-8	17.12.1.32.0-3.0-1.0-10.0-8		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-	s		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-9								
17.12.1.32.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-11	17.12.1.32.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-12	17.12.1.32.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-13	17.12.1.32.0-3.0-1.0-10.0-13		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-14	17.12.1.32.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-15	17.12.1.32.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-10.0-18	17.12.1.32.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-	17.12.1.32.0-3.0-1.0-11.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-3								
17.12.1.32.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-14	17.12.1.32.0-3.0-1.0-11.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-	17.12.1.32.0-3.0-1.0-11.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-15								
17.12.1.32.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-1	11		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-3	17.12.1.32.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-4	17.12.1.32.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-5	17.12.1.32.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-6	17.12.1.32.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-7	17.12.1.32.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-8	17.12.1.32.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-	17.12.1.32.0-3.0-1.0-12.0-9		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-9								
17.12.1.32.0-3.0-1.0-12.0-10	17.12.1.32.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-11	17.12.1.32.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-12	17.12.1.32.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-13	17.12.1.32.0-3.0-1.0-12.0-13		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-14	17.12.1.32.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-15	17.12.1.32.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-12.0-18	17.12.1.32.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-	17.12.1.32.0-3.0-1.0-13.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-3								
17.12.1.32.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-14	17.12.1.32.0-3.0-1.0-13.0-14		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.12.1.32.0-3.0-1.0-	17.12.1.32.0-3.0-1.0-13.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-15								
17.12.1.32.0-3.0-1.0-13.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-1	13		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-3	17.12.1.32.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-4	17.12.1.32.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-5	17.12.1.32.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-6	17.12.1.32.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-7	17.12.1.32.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-8	17.12.1.32.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-	17.12.1.32.0-3.0-1.0-14.0-9		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-9								
17.12.1.32.0-3.0-1.0-14.0-10	17.12.1.32.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-11	17.12.1.32.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-12	17.12.1.32.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-13	17.12.1.32.0-3.0-1.0-14.0-13		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-14	17.12.1.32.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-15	17.12.1.32.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-14.0-18	17.12.1.32.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-	17.12.1.32.0-3.0-1.0-15.0-3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-3								
17.12.1.32.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-7	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-14	17.12.1.32.0-3.0-1.0-15.0-14		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-	17.12.1.32.0-3.0-1.0-15.0-15		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-15								
17.12.1.32.0-3.0-1.0-15.0-16	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.12.1.32.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		
17.13	17.13 Transition Start of Mission (sleeping)		False	False	False	Unknown		
17.13.1	17.13.1 Requirements for the activation of the STM at Start of Mission		False	False	False	Unknown		
17.13.1.1	17.13.1.1 (SRS: 4.6.3) Transitions Conditions Table:		False	False	False	Unknown		
17.13.1.1.0-1.0-1.0-1	[14]		False	True	False	Unknown		
17.13.1.1.0-1.0-1.0-2	(The "sleeping" input signal is received) AND (train is at standstill) AND (all desks connected to the ERTMS/ETCS on-board equipment are closed)		False	True	False	Unknown		
17.13.1.1.1	17.13.1.1.1 (SRS: 4.6.2) Transition Table.		False	False	False	Unknown		
17.13.1.1.1.0-1	Mode transition [14] from SB to SL		False	False	False	Unknown		
17.13.1.2	17.13.1.2 (FFFIS STM: 7.4.1.1.12) The STM Control Function shall send to the STM the current ETCS technical mode		False	False	False	Unknown		
17.13.1.2.0-1	when the connection between the STM and the STM Control Function is established, and		False	False	False	Unknown		
17.13.1.2.0-2	whenever the ETCS technical mode changes.		False	False	False	Unknown		
17.13.1.3	17.13.1.3 (FFFIS STM: 7.3.1.3.4) If an STM in Configuration State detects that the ETCS On-board is in the technical mode Non-Leading or		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	Sleeping, the STM shall request to go to CS state.							
17.13.1.4	17.13.1.4 (FFFIS STM: 7.3.1.3.4.1) Justification: This allows STM operation on Non-Leading or Sleeping cab without data entry.		False	False	False	Unknown		
17.13.1.5	17.13.1.5 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.5.0-1.0-1.0-1	A4a		False	False	False	Unknown		
17.13.1.5.0-1.0-1.0-2	("Request CS state" received from STM)		False	True	False	Unknown		
17.13.1.5.1	17.13.1.5.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.5.1.0-1	STM state order for CS		False	False	False	Unknown		
17.13.1.6	17.13.1.6 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.13.1.7	17.13.1.7 (FFFIS STM: 7.4.1.2.4.2) When the state transition order is going to CS state, the STM Control Function shall send an "unconditional order CS state" for the transition A4a, B4a and C4a and a "conditional order CS state" for the transition A4b.		False	False	False	Unknown		
17.13.1.8	17.13.1.8 (FFFIS STM: 7.4.1.3.1) The STM Control Function shall consider a state transition order as effective immediately after sending the state transition order to the STM.		False	False	False	Unknown		
17.13.1.9	17.13.1.9 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.9.0-1.0-1.0-1	C16		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.13.1.9.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.13.1.9.1	17.13.1.9.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.9.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.13.1.10	17.13.1.10 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.13.1.10.0-1.0-1.0-1	4a		False	False	False	Unknown		
17.13.1.10.0-1.0-1.0-2	ETCS unconditional order "Cold Standby"		False	True	False	Unknown		
17.13.1.10.1	17.13.1.10.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.13.1.10.1.0-1	Transition from CO to CS		False	False	False	Unknown		
17.13.1.11	17.13.1.11 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.13.1.11.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.13.1.11.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.13.1.12	17.13.1.12 (FFFIS STM: 7.3.1.5.1) Being in the state CS, the STM was initialised, tested, configured and is in possession of all required information for operating, but not able to receive a message from the trackside, because the reception is turned off.		False	False	False	Unknown		
17.13.1.13	17.13.1.13 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.13.1.13.0-1.0-1.0-1	C6		False	False	False	Unknown		
17.13.1.13.0-1.0-1.0-2	(ETCS technical mode has changed from SB to NL or SL) AND (stored level of the ETCS On-board is Level STM X) AND (STM X reports "CS state") AND (no other STM reports HS state) see 7.4.1.2.3.3		False	True	False	Unknown		
17.13.1.13.1	17.13.1.13.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.13.1.0-1	STM state order for HS		False	False	False	Unknown		
17.13.1.14	17.13.1.14 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.13.1.15	17.13.1.15 (FFFIS STM: 7.4.1.3.1) The STM Control Function shall consider a state transition order as effective immediately after sending the state transition order to the STM.		False	False	False	Unknown		
17.13.1.16	17.13.1.16 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.16.0-1.0-1.0-1	C16		False	True	False	Unknown		
17.13.1.16.0-1.0-1.0-2	(the STM Control Function has sent a state transition order except "DA state transition order" and except "conditional CS state transition order") AND (the STM does not report the required state within a maximum delay time of 10 seconds) see 7.4.1.2.3.2		False	True	False	Unknown		
17.13.1.16.1	17.13.1.16.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.16.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.13.1.17	17.13.1.17 (FFFIS STM: 7.6.1.5) When an STM in CS state receives an order to go in HS state or in DA state, the STM shall immediately open all connections to the required ETCS On-board functions.		False	False	False	Unknown		
17.13.1.18	17.13.1.18 (FFFIS STM: 7.6.1.5.1) Exception: If the ETCS technical mode is SL, the STM shall not open a connection to the ETCS DMI function.		False	False	False	Unknown		
17.13.1.19	17.13.1.19 (FFFIS STM: 7.4.2.4.1) The ETCS TIU Function shall transmit train interface status /availability to any STM which is connected to the ETCS TIU Function on the following events:		False	False	False	Unknown		
17.13.1.19.0-1	When a connection is established		False	False	False	Unknown		
17.13.1.19.0-2	Whenever a TIU status / availability changes.		False	False	False	Unknown		
17.13.1.20	17.13.1.20 (FFFIS STM: 7.4.2.4.2) The ETCS Brake Function (BIU) shall transmit the brakes state to any STM which is connected to the ETCS Brake Function on the following events:		False	False	False	Unknown		
17.13.1.20.0-1	When a connection is established		False	False	False	Unknown		
17.13.1.20.0-2	Whenever a Brake status changes.		False	False	False	Unknown		
17.13.1.21	17.13.1.21 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.13.1.21.0-1.0-1.0-1	6		False	False	False	Unknown		
17.13.1.21.0-1.0-1.0-2	ETCS order "Hot Standby"		False	True	False	Unknown		
17.13.1.21.1	17.13.1.21.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.13.1.21.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.13.1.22	17.13.1.22 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
17.13.1.22.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.13.1.22.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.13.1.23	17.13.1.23 (FFFIS STM: 7.3.1.6.1) Being in the state HS, the STM shall be able to process the information from or to the national trackside.		False	False	False	Unknown		
17.13.1.24	17.13.1.24 (FFFIS STM: 7.3.1.6.1.1) Note: In HS state, when receiving national trackside information, the STM shall treat this information to be prepared to take in charge the train movement supervision once its state will switch to DA state.		False	False	False	Unknown		
17.13.1.25	17.13.1.25 (FFFIS STM: 7.4.1.2.3) STM state order conditions table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.25.0-1.0-1.0-1	E9		False	False	False	Unknown		
17.13.1.25.0-1.0-1.0-2	(ETCS technical mode has changed from SB to NL or SL) AND (stored level of the ETCS On-board is Level STM X) AND (STM X reports "HS state")		False	True	False	Unknown		
17.13.1.25.1	17.13.1.25.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.25.1.0-1	STM state order for DA		False	False	False	Unknown		
17.13.1.26	17.13.1.26 (FFFIS STM: 7.4.1.2.4) When the conditions within the STM Control Function are valid according to 7.4.1.2.2 and 7.4.1.2.3, the STM Control Function shall send the corresponding state transition order to the STM.		False	False	False	Unknown		
17.13.1.27	17.13.1.27 (FFFIS STM: 7.4.1.3.1) The STM Control Function shall consider a state transition order as effective immediately after sending the state transition order to the STM.		False	False	False	Unknown		
17.13.1.28	17.13.1.28 (FFFIS STM: 7.4.1.2.3) STM state		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	order conditions table (ETCS On-board STM Control Function)							
17.13.1.28.0-1.0-1.0-1	D16		False	False	False	Unknown		
17.13.1.28.0-1.0-1.0-2	(the STM Control Function has sent a "DA state transition order") AND (the STM does not report the required state within a maximum delay time of 5 seconds) see 7.4.1.2.3.1 and 7.4.1.2.3.2		False	True	False	Unknown		
17.13.1.28.1	17.13.1.28.1 (FFFIS STM: 7.4.1.2.2) STM state order table (ETCS On-board STM Control Function)		False	False	False	Unknown		
17.13.1.28.1.0-1	STM state order for FA in case the STM does not change the state within the required time		False	False	False	Unknown		
17.13.1.29	17.13.1.29 (FFFIS STM: 7.3.2.2) Transitions conditions table		False	False	False	Unknown		
17.13.1.29.0-1.0-1.0-1	9		False	False	False	Unknown		
17.13.1.29.0-1.0-1.0-2	ETCS order "Data Available"		False	True	False	Unknown		
17.13.1.29.1	17.13.1.29.1 (FFFIS STM: 7.3.2.1) Transitions table for STM		False	False	False	Unknown		
17.13.1.29.1.0-1	Transition from CS to HS		False	False	False	Unknown		
17.13.1.30	17.13.1.30 (FFFIS STM: 7.3.4.4) The STM shall report its current state to any ETCS Function		False	False	False	Unknown		
17.13.1.30.0-1	when the connection between the STM and the ETCS Function is established, and		False	False	False	Unknown		
17.13.1.30.0-2	with each transmitted application message from the STM to the ETCS Function.		False	False	False	Unknown		
17.13.1.31	17.13.1.31 (FFFIS STM: 7.3.1.7.1) In DA state, a National STM is responsible for the train movement supervision, according to the received national trackside information. A European STM is also responsible for the train movement supervision, according to the received national trackside information, but		False	False	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
	some parts of the calculations are performed by the ETCS On-board.							
17.13.1.32	17.13.1.32 (SRS: 4.4.6.1.9 (Sleeping)) When the ERTMS/ETCS level is STM, the ERTMS/ETCS Onboard equipment shall be responsible for providing the STM with access to various resources such as MM, Odometer, Juridical Recorder and train interface.		False	False	False	Unknown		
17.13.1.33	17.13.1.33 (FFFIS STM: 5.2.10.1) The STM shall be allowed to access the ETCS On-board functions according to the following table:		False	False	False	Unknown		
17.13.1.33.0-1	x = access is allowed in all Levels		False	False	False	Unknown		
17.13.1.33.0-2	(x) = access is allowed in all Levels if possible		False	False	False	Unknown		
17.13.1.33.0-3	s = access is allowed for an active STM (in state "Data Available") only in the Level STM		False	False	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-1	No.		False	False	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-2	ETCS ON-BOARD FUNCTIONS available for STMs		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-3	NP		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-4	SB		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-5	SH		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-6	FS		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-	SR		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.13.1.33.0-3.0-1.0-1.0-8	OS		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-9	SL		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-10	NL		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-11	UN		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-12	TR		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-13	PT		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-14	SF		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-15	IS		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-16	SE		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-17	SN		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-1.0-18	RV		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-	1		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.13.1.33.0-3.0-1.0-2.0-2	STM Control Function		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-3	17.13.1.33.0-3.0-1.0-2.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-5	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-7	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-9	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.13.1.33.0-3.0-1.0-2.0-14	17.13.1.33.0-3.0-1.0-2.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-15	17.13.1.33.0-3.0-1.0-2.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-2.0-18	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-1	2		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-2	Reference Clock		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-3	17.13.1.33.0-3.0-1.0-3.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-5	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.13.1.33.0-3.0-1.0-3.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-9	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-13	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-14	17.13.1.33.0-3.0-1.0-3.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-15	17.13.1.33.0-3.0-1.0-3.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-3.0-18	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-	3		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.13.1.33.0-3.0-1.0-4.0-2	European Supervision		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-3	17.13.1.33.0-3.0-1.0-4.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-4	17.13.1.33.0-3.0-1.0-4.0-4		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-5	17.13.1.33.0-3.0-1.0-4.0-5		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-6	17.13.1.33.0-3.0-1.0-4.0-6		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-7	17.13.1.33.0-3.0-1.0-4.0-7		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-8	17.13.1.33.0-3.0-1.0-4.0-8		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-9	17.13.1.33.0-3.0-1.0-4.0-9		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-10	17.13.1.33.0-3.0-1.0-4.0-10		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-11	17.13.1.33.0-3.0-1.0-4.0-11		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-12	17.13.1.33.0-3.0-1.0-4.0-12		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-	17.13.1.33.0-3.0-1.0-4.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.13.1.33.0-3.0-1.0-4.0-14	17.13.1.33.0-3.0-1.0-4.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-15	17.13.1.33.0-3.0-1.0-4.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-16	s		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-17	17.13.1.33.0-3.0-1.0-4.0-17		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-4.0-18	17.13.1.33.0-3.0-1.0-4.0-18		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-1	4		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-2	DMI		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-3	17.13.1.33.0-3.0-1.0-5.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-4	17.13.1.33.0-3.0-1.0-5.0-4		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-5	17.13.1.33.0-3.0-1.0-5.0-5		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-6	17.13.1.33.0-3.0-1.0-5.0-6		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-7	17.13.1.33.0-3.0-1.0-5.0-7		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.13.1.33.0-3.0-1.0-5.0-8	17.13.1.33.0-3.0-1.0-5.0-8		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-9	17.13.1.33.0-3.0-1.0-5.0-9		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-10	s		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-11	17.13.1.33.0-3.0-1.0-5.0-11		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-12	17.13.1.33.0-3.0-1.0-5.0-12		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-13	17.13.1.33.0-3.0-1.0-5.0-13		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-14	17.13.1.33.0-3.0-1.0-5.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-15	17.13.1.33.0-3.0-1.0-5.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-16	s		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-17	s		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-5.0-18	17.13.1.33.0-3.0-1.0-5.0-18		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-	5		False	True	False	Unknown		

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Paragraph number	FFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.13.1.33.0-3.0-1.0-6.0-2	DMI preliminary requests (see 10.5.2.6)		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-3	17.13.1.33.0-3.0-1.0-6.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-5	17.13.1.33.0-3.0-1.0-6.0-5		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-7	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-9	17.13.1.33.0-3.0-1.0-6.0-9		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.13.1.33.0-3.0-1.0-6.0-14	17.13.1.33.0-3.0-1.0-6.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-15	17.13.1.33.0-3.0-1.0-6.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-6.0-18	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-1	6		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-2	JRU		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-3	17.13.1.33.0-3.0-1.0-7.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-5	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.13.1.33.0-3.0-1.0-7.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-9	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-13	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-14	(x)		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-15	17.13.1.33.0-3.0-1.0-7.0-15		<i>False</i>	<i>True</i>	<i>False</i>	<i>Unknown</i>		
17.13.1.33.0-3.0-1.0-7.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-7.0-18	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-	7		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
1								
17.13.1.33.0-3.0-1.0-8.0-2	DRU		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-3	17.13.1.33.0-3.0-1.0-8.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-5	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-7	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-9	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13								
17.13.1.33.0-3.0-1.0-8.0-14	(x)		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-15	17.13.1.33.0-3.0-1.0-8.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-8.0-18	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-1	8		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-2	Odometer		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-3	17.13.1.33.0-3.0-1.0-9.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-5	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
7								
17.13.1.33.0-3.0-1.0-9.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-9	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-13	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-14	17.13.1.33.0-3.0-1.0-9.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-15	17.13.1.33.0-3.0-1.0-9.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-9.0-18	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-	9		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-1								
17.13.1.33.0-3.0-1.0-10.0-2	TIU command (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-3	17.13.1.33.0-3.0-1.0-10.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-4	17.13.1.33.0-3.0-1.0-10.0-4		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-5	17.13.1.33.0-3.0-1.0-10.0-5		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-6	17.13.1.33.0-3.0-1.0-10.0-6		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-7	17.13.1.33.0-3.0-1.0-10.0-7		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-8	17.13.1.33.0-3.0-1.0-10.0-8		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-9	s		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-10	s		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-11	17.13.1.33.0-3.0-1.0-10.0-11		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-12	17.13.1.33.0-3.0-1.0-10.0-12		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-	17.13.1.33.0-3.0-1.0-10.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
10.0-13								
17.13.1.33.0-3.0-1.0-10.0-14	17.13.1.33.0-3.0-1.0-10.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-15	17.13.1.33.0-3.0-1.0-10.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-10.0-18	17.13.1.33.0-3.0-1.0-10.0-18		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-1	10		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-2	TIU status (Train Interface FFFIS STM signals)		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-3	17.13.1.33.0-3.0-1.0-11.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-5	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
11.0-7								
17.13.1.33.0-3.0-1.0-11.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-9	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-13	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-14	17.13.1.33.0-3.0-1.0-11.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-15	17.13.1.33.0-3.0-1.0-11.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-11.0-18	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-	11		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-1								
17.13.1.33.0-3.0-1.0-12.0-2	Emergency Brake command		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-3	17.13.1.33.0-3.0-1.0-12.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-4	17.13.1.33.0-3.0-1.0-12.0-4		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-5	17.13.1.33.0-3.0-1.0-12.0-5		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-6	17.13.1.33.0-3.0-1.0-12.0-6		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-7	17.13.1.33.0-3.0-1.0-12.0-7		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-8	17.13.1.33.0-3.0-1.0-12.0-8		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-9	17.13.1.33.0-3.0-1.0-12.0-9		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-10	17.13.1.33.0-3.0-1.0-12.0-10		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-11	17.13.1.33.0-3.0-1.0-12.0-11		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-12	17.13.1.33.0-3.0-1.0-12.0-12		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-13	17.13.1.33.0-3.0-1.0-12.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
12.0-13								
17.13.1.33.0-3.0-1.0-12.0-14	17.13.1.33.0-3.0-1.0-12.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-15	17.13.1.33.0-3.0-1.0-12.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-12.0-18	17.13.1.33.0-3.0-1.0-12.0-18		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-1	12		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-2	Emergency Brake status		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-3	17.13.1.33.0-3.0-1.0-13.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-5	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
13.0-7								
17.13.1.33.0-3.0-1.0-13.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-9	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-13	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-14	17.13.1.33.0-3.0-1.0-13.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-15	17.13.1.33.0-3.0-1.0-13.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-13.0-18	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-	13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-1								
17.13.1.33.0-3.0-1.0-14.0-2	Service Brake command		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-3	17.13.1.33.0-3.0-1.0-14.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-4	17.13.1.33.0-3.0-1.0-14.0-4		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-5	17.13.1.33.0-3.0-1.0-14.0-5		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-6	17.13.1.33.0-3.0-1.0-14.0-6		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-7	17.13.1.33.0-3.0-1.0-14.0-7		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-8	17.13.1.33.0-3.0-1.0-14.0-8		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-9	17.13.1.33.0-3.0-1.0-14.0-9		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-10	17.13.1.33.0-3.0-1.0-14.0-10		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-11	17.13.1.33.0-3.0-1.0-14.0-11		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-12	17.13.1.33.0-3.0-1.0-14.0-12		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-13	17.13.1.33.0-3.0-1.0-14.0-13		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
14.0-13								
17.13.1.33.0-3.0-1.0-14.0-14	17.13.1.33.0-3.0-1.0-14.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-15	17.13.1.33.0-3.0-1.0-14.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-14.0-18	17.13.1.33.0-3.0-1.0-14.0-18		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-1	14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-2	Service Brake status		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-3	17.13.1.33.0-3.0-1.0-15.0-3		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-4	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-5	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-6	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-	x		False	True	False	Unknown		

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Paragraph number	FFFIS STM Requirements	Equipment	Requirement	Testable	Degraded	Functional Identity	Tested in Test Cases	Comment
15.0-7								
17.13.1.33.0-3.0-1.0-15.0-8	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-9	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-10	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-11	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-12	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-13	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-14	17.13.1.33.0-3.0-1.0-15.0-14		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-15	17.13.1.33.0-3.0-1.0-15.0-15		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-16	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-17	x		False	True	False	Unknown		
17.13.1.33.0-3.0-1.0-15.0-18	x		False	True	False	Unknown		

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