

Train Control ETCS sys

ETCS System Compatibility Borders

Document Management

	Name	Signature Date	Signature
Written	Thomas Destrée (Infrabel)		
Checked	Bavo Lens (Infrabel)		
Approved	Yves Werner (Infrabel)		

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History

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Abrogated documents

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1. Introduction

1.1 Purpose of the document

The purpose of this document is to define the test scenarios to perform in to prove the ETCS System Compatibility (ESC) between the on-board and the trackside at the Infrabel network borders with Germany.

This document is an annexe of [4].

1.2 Basic documents

Ref.	Title	Owner
[1]	PSI (TC,ETCSsys,z) ESC TST PLN 1.4	Infrabel
[2]	Masterplan ETCS and IL 1.1 - Visie 2025 - Situatie ETCS	Infrabel
[3]	PSI (TC,ETCSsys,L3--DB) transition Belgium-Germany S 1.16	Infrabel

1.3 Reference documents

Title	Owner
[4] PSI (TC, ETCSsys,z) Borders ESC TST DSC 1.3	Infrabel

1.4 Annexes

Ref.	Title	Owner
[5]	None	

1.5 Scope

This document is applicable for all trains that would run under the protection of ETCS on lines close to a German border of the Infrabel network.

1.6 Definitions, symbols and abbreviations

CCS	Control Command System
DMI	Driver Machine Interface
ESC	ETCS System Compatibility
ETCS	European Train Control System
IBG	Infill Balise Group
LS	Limited Supervision
NR	Not Relevant
SBG	Signal Balise Group
TSI	Technical Specification for Interoperability
VBC	Virtual Balise Cover

1.7 Known imperfections

This version does not contain the test descriptions for line 24. Description and test for this line will be completed in future releases.

2. On-board Equipment

Out of scope of railway manager Infrabel.

3. Lines crossing the German border

3.1 L24

This border will be equipped with ETCS1 FS, test description to be defined.

3.2 L37

This border is equipped with ETCS1 FS in Belgium and STM (PZB and TBL1+) in Germany.

The transition to ETCS1 FS is the same as the transition STM -- ETCS1 FS elsewhere on the network done one a single signal (ESC_TR_15 in [1]).

The exit of ETCS1 FS is also similar at the exception of the content of the P41. In this case, German STM's are in the highest priority (ESC_TR_12 in [1]).

No specific ESC tests are required for the border on this line.

4. Test scenarios

To be defined.