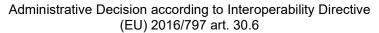


RECOMMENDATION FOR USE

NB-Rail Coordination Group





RFU-RST-311 Issue 02
Date 09/03/2022

TITLE	
WHEELSET ELECTRICAL RESISTANCE	
ORIGINATOR	SUBJECT RELATED TO
VUD	Commission Regulation (EU) 321/2013 (WAG TSI) amended by Reg. (EU) No 1236/2013, Reg. (EU) 2015/924, Reg. (EU) 2019/776 & Reg. (EU) 2020/387

AMENDMENT RECORD

ISSUE 02: SIMPLIFICATION OF GENERAL BACKGROUND DESCRIPTION

DESCRIPTION AND BACKGROUND EXPLANATION

The aim of this RFU is to notice that WAG TSI clause 4.2.3.3 (a) requires trains to be detected based on track circuits. However, the verification of the parameter electrical resistance of the wheelset is unfeasible or impractical in many cases at subsystem level.

Background:

WAG TSI clause 4.2.3.3 (a)

"If the unit is intended to be compatible with one or more of the following train detection systems, this compatibility shall be established according to the provisions of the ERA/ERTMS/033281 rev. 4.0:

(a) train detection systems based on track circuit..."

ERA/ERTMS/033281 rev. 4.0, point 3.1.9: "Harmonised parameter: The electrical resistance between the running surfaces of the opposite wheels of a wheelset does not exceed 0.05 Ohm, measured by a voltage between 1.8 VDC and 2.0 VDC (open circuit)."

Description of the situation:

When a wagon is assessed, a NoBo must consider the document ERA/ERTMS/033281 rev. 4.0, where the parameter electrical resistance is required.

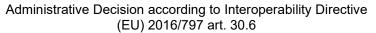
However, this harmonised parameter is required at subsystem level, where its verification is unusual with difficult feasibility.

The parameter is usually being checked already on IC level.



RECOMMENDATION FOR USE

NB-Rail Coordination Group





RFU-RST-311

Issue 02 Date 09/03/2022

<u>Question</u>: In which stage of a wagon approval the electrical resistance of a wheelset should be verified?

RFU PROPOSAL

<u>Proposal to question</u>: The parameter 'electrical resistance of a wheelset' may be checked at the interoperability constituent level.

THIS RFU WAS AGREED ON

PLENARY MEETING 64 - 02/03/2022

THIS RFU ENTERS INTO FORCE ON

09/03/2022 (DATE OF PUBLICATION)

FROM THIS DATE ON THIS RFU CAN BE APPLIED INSTEAD OF THE PREVIOUS MANDATORY VERSION.

RFU APPLICATION IS MANDATORY STARTING FROM

09/03/2022

RFUS SHALL BE APPLIED BY ALL NOBOS. PLEASE REFER TO RFU-STR-702, CHAPTER 3 OF THE SECTION "DESCRIPTION AND BACKGROUND EXPLANATION", FOR THE LEGAL BASIS SUPPORTING THIS OBLIGATION.

ERA COMMENTS

PLE 64 - 02/03/2022: NO COMMENTS - OR SPECIFY IF ANY

ERA DISCLAIMER WILL BE INCLUDED