

Organisation intergouvernementale pour les transports internationaux ferroviaires Zwischenstaatliche Organisation für den internationalen Eisenbahnverkehr Intergovernmental Organisation for International Carriage by Rail

INF. 7

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Joint Coordinating Group of Experts (Video conference, 7 and 8 September 2021)

# Agenda item 3: Review of and report on the list of priority items agreed at the previous meeting

<u>2 a – Vehicle Authorisation process: responsibilities for conformity assessment (Notified Body for vehicles)</u>

ITEM 4: 7.1.1 (NOTE)

Transmitted by European Union Agency for Railways

# TWG 'Freight' Derailment Prevention/Detection (DDD)

Working Party meeting 7 September 2021 - Teams teleconference



# TWG Freight – Derailment detection/prevention

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- Proposal to amend TSI LOC&PAS and TSI WAG already finished and available in the Extranet space of the WP
- Derailment detection and prevention function are composed of the following three voluntary functions:
  - DPF (Derailment Prevention Function)
  - DDF (Derailment Detection Function)
  - DDAF (Derailment Detection and Actuation Function)

• Main characteristics of these functions can be summarized in the table below:

Function	Description	Impacted TSIs	Risk scenario defined	Additional information
DPF	Detects precursors to a derailment and sends a signal to driver's cab. The requirements for the driver cab once such signal is detected is described in TSI LOC&PAS	TSI WAG TSI LOC&PAS	None	Function shared between wagons and locomotive or fully contained in the locomotive
DDF	Detects derailment once it has started and sends a signal to driver's cab. The requirements for the driver cab once such signal is detected is described in TSI LOC&PAS	TSI WAG TSI LOC&PAS	None	Function shared between wagons and locomotive or fully contained in the locomotive
DDAF	Detects derailment once it has started and automatically activates a brake application without possibility of overriding.	TSI WAG	Yes: false derailment detections may lead to excessive compressive forces having the typical credible potential to cause a derailment	Function fully contained in the freight wagon

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### TWG Freight – Derailment detection/prevention

- Derailment detection/prevention are defined as basic design characteristics in both TSI LOC&PAS and TSI WAG. Its fitting or removal will trigger a version in ERATV.
- No changes brought to the OPE TSI
- Impact Assessment Positive assessment of recommendation

#### Next steps:

• Recommendation to be discussed in detail on WP meeting of 26.10.2021



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