

REGULATIONS

COMMISSION DELEGATED REGULATION (EU) 2022/545

of 26 January 2022

supplementing Regulation (EU) 2019/2144 of the European Parliament and of the Council by laying down detailed rules concerning the specific test procedures and technical requirements for the type-approval of motor vehicles with regard to their event data recorder and for the type-approval of those systems as separate technical units and amending Annex II to that Regulation

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2019/2144 of the European Parliament and of the Council of 27 November 2019 on type-approval requirements for motor vehicles and their trailers, and systems, components and separate technical units intended for such vehicles, as regards their general safety and the protection of vehicle occupants and vulnerable road users, amending Regulation (EU) 2018/858 of the European Parliament and of the Council and repealing Regulations (EC) No 78/2009, (EC) No 79/2009 and (EC) No 661/2009 of the European Parliament and of the Council and Commission Regulations (EC) No 631/2009, (EU) No 406/2010, (EU) No 672/2010, (EU) No 1003/2010, (EU) No 1005/2010, (EU) No 1008/2010, (EU) No 1009/2010, (EU) No 19/2011, (EU) No 109/2011, (EU) No 458/2011, (EU) No 65/2012, (EU) No 130/2012, (EU) No 347/2012, (EU) No 351/2012, (EU) No 1230/2012 and (EU) 2015/166 ⁽¹⁾, and in particular Article 4(6) and Article 6(6) thereof,

Whereas:

- (1) Regulation (EU) 2019/2144 lays down a general obligation for motor vehicles to be equipped with certain advanced vehicle systems. Annex II to that Regulation should list requirements for the type-approval of motor vehicles with regard to their event data recorders and for the type-approval of those systems as separate technical units. It is necessary to supplement those requirements by establishing detailed harmonised rules on the specific test procedures and technical requirements for such type-approval.
- (2) The technical requirements and test procedures set out in this Regulation concern motor vehicle categories M₁ and N₁, in accordance with the applicable dates for refusal to grant EU type-approval regarding those categories of motor vehicles set out in Regulation (EU) 2019/2144.
- (3) In accordance with Article 3, point (13), of Regulation (EU) 2019/2144, the event data recorder is a system with the only purpose of recording and storing critical crash-related parameters and information shortly before, during and immediately after a collision with a view to obtain more accurate, in-depth accident data enabling Member States to conduct road safety analysis and assess the effectiveness of specific measures.
- (4) The test procedures and detailed technical requirements for type-approval of vehicle types with regard to event data recorders are subject to the provisions of UN Regulation No 160 ⁽²⁾. That UN Regulation should therefore be added to the list of applicable requirements referred to in Articles 4(5) and 5(3) of Regulation (EU) 2019/2144.

⁽¹⁾ OJ L 325, 16.12.2019, p. 1.

⁽²⁾ UN Regulation No 160 – Uniform provisions concerning the approval of motor vehicles with regard to the Event Data Recorder (OJ L 221, 21.6.2021, p. 15); UN Regulation No 160 – Uniform provisions concerning the approval of motor vehicles with regard to the Event Data Recorder [2021/1215] 01 series of amendments (OJ L 265, 26.7.2021, p. 3).

- (5) UN Regulation No 160 includes the requirements regarding data elements that event data recorders are to record, the format of those data, the requirements for data capture, recording and on-board storing, as well as requirements on crash-test performance and survivability.
- (6) All technical requirements laid down in 01 Series of Amendments to UN Regulation No 160 ⁽⁷⁾ shall apply from the dates specified in Annex II to Regulation (EU) 2019/2144, without prejudice to the international obligations of the Union.
- (7) In order to ensure that vehicle manufacturers take appropriate measures to ensure the protection of the event data recorder's data against manipulation and the availability of the event data recorder's data over the standardised interface, and to enable those data to be anonymised, those requirements should be supplemented with additional requirements for data retrieval, privacy and security of data.
- (8) To ensure that the data recorded by the event data recorders remain anonymised, the manufacturers should be obliged to take appropriate measures preventing that those data are reported or retrieved together with any information related to a natural person.
- (9) Until standardised communication protocols for access and retrieval of event data are in place through a Commission delegated act, vehicle manufacturers should provide information to relevant parties on how to access, retrieve and interpret the data in the event data recorder.
- (10) Event data recorder's correct operational status, as well as their correct functionality and software integrity, should be verified by periodic roadworthiness tests of vehicles.
- (11) The table containing the list of requirements in Annex II to Regulation (EU) 2019/2144 does not contain any reference to regulatory acts as regards event data recorders. It is therefore necessary to introduce a reference to this Regulation and UN Regulation No 160 in that Annex.
- (12) The list of the UN Regulations referred to in Article 4(2) of Regulation (EU) 2019/2144, contained in Annex I to that Regulation, should be amended to include a reference to 01 series of amendments to UN Regulation No 160.
- (13) Regulation (EU) 2019/2144 should therefore be amended accordingly.
- (14) The provisions of this Regulation are closely interlinked as those provisions set out rules on the technical requirements for the type-approval of motor vehicles with regard to their event data recorder, as well as for the type-approval of event data recorders as a separate technical unit. As a result of the rules laid down in this Regulation, it is necessary to add the reference to this Regulation, UN Regulation No 160 and the 01 Series of Amendments to UN Regulation No 160 in Annex II to Regulation (EU) 2019/2144. It is therefore appropriate to lay down those provisions in a single Delegated Regulation.
- (15) As the requirements of Regulation (EU) 2019/2144 as regards event data recorders for vehicles of categories M₁ and N₁ are to apply from 6 July 2022, this Regulation should apply from the same date,

⁽⁷⁾ UN Regulation No 160 – Uniform provisions concerning the approval of motor vehicles with regard to the Event Data Recorder [2021/1215] 01 series of amendments (OJ L 265, 26.7.2021, p. 3).

HAS ADOPTED THIS REGULATION:

Article 1

Scope

This Regulation shall apply to vehicle categories M₁ and N₁, as defined in Article 4 of Regulation (EU) 2018/858 of the European Parliament and of the Council ⁽⁴⁾.

Article 2

Applicable technical requirements

1. The event data recorder system of a vehicle shall comply with the technical requirements set out in:
 - (a) UN Regulation No 160; and
 - (b) Articles 3, 4 and 5 of this Regulation.
2. Type-approval of an event data recorder as a separate technical unit shall be subject to the separate technical unit complying with the same requirements as those set out in paragraphs 5.3 (introductory paragraph), 5.3.3, 5.3.4, 5.3.5 and 5.5 of UN Regulation No 160.
3. Where the motor vehicle is fitted with an event data recorder type-approved as a separate technical unit, the vehicle and its event data recorder shall comply with the technical requirements referred to in paragraph 1 of this Article. However, as regards paragraph 5 of UN Regulation No 160, they shall comply with the requirements set out in paragraphs 5.1, 5.2, 5.3.1, 5.3.2, and 5.4 of that Regulation.

Article 3

Data security

1. The crash-related data that the event data recorder records and stores shall be protected against manipulation by complying with the relevant technical requirements and transitional provisions of UN Regulation No 155 ⁽⁵⁾, the original series or any later series of amendments thereof.
2. Software updates performed on the event data recorder shall be protected to reasonably prevent them from being compromised and reasonably prevent invalid updates.

Article 4

Data retrieval

1. Crash-related data recorded by the event data recorders shall be made available for retrieval through the serial data port on the standardised data link connector referred to in point 2.9 of Annex X to Regulation (EU) 2018/858. Where the serial data port is no longer functional after a collision, the data shall be retrievable by a direct connection to the event data recorder.
2. The vehicle manufacturer shall provide the type-approval authority and, at the request of a type-approval authority, any interested manufacturer or repairer of components, diagnostic tools or test equipment with information about how the event data can be accessed, retrieved and interpreted.

⁽⁴⁾ Regulation (EU) 2018/858 of the European Parliament and of the Council of 30 May 2018 on the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles, amending Regulations (EC) No 715/2007 and (EC) No 595/2009 and repealing Directive 2007/46/EC (OJ L 151, 14.6.2018, p. 1).

⁽⁵⁾ UN Regulation No 155 – Uniform provisions concerning the approval of vehicles with regards to cybersecurity and cybersecurity management system [2021/387] (OJ L 82, 9.3.2021, p. 30).

3. Vehicles and their event data recorders shall be designed in a way that enables a data retrieval tool to produce event reports that contain the following data elements:

- (a) each of the mandatory data elements, as required under UN Regulation No 160;
- (b) the precise vehicle type, variant and version (including the fitted active safety and accident avoidance systems) of the vehicle hosting the event data recorder.

The data referred to in the point (b) above, shall also be available at the completion of the crash test referred to in paragraph 5.4.3 of UN Regulation No 160.

4. The data recorded by the event data recorder shall not be available for retrieval over interfaces accessible without the need to unlock the vehicle or to use tools, or over vehicle interfaces for wireless connections.

5. The event data recorder's data made available pursuant to paragraph 1:

- (a) shall be available in a machine-readable format;
- (b) shall not include or be made available together with any information allowing to relate those data to a natural person.

Article 5

Provisions for roadworthiness testing

For the purpose of periodic roadworthiness tests of vehicles, it shall be possible to verify the following features of the event data recorder system:

- (1) its correct operational status, by visible observation of the failure warning signal status following the activation of the vehicle master control switch and any bulb check. Where the failure warning signal is displayed in a common space (the area on which two or more information functions/symbols may be displayed, but not simultaneously), it must be checked first that the common space is functional prior to the failure warning signal status check;
- (2) its correct functionality and the software integrity, by the use of an electronic vehicle interface, such as the one laid down in Section I, point (14), of Annex III to Directive 2014/45/EU of the European Parliament and of the Council ⁽⁶⁾, where the technical characteristics of the vehicle allow for it and the necessary data is made available. Manufacturers shall ensure to make available the technical information for the use of the electronic vehicle interface in accordance with Article 6 of Commission Implementing Regulation (EU) 2019/621 ⁽⁷⁾.

Article 6

Temporary provisions regarding approvals under UN Regulation No 160

1. With effect from 6 July 2022, national authorities shall refuse, on grounds relating to event data recorders, to grant EU type-approval or national type-approval in respect of new types of vehicle which do not comply with this Regulation and the technical requirements of 01 Series of Amendments to UN Regulation No 160. However, national authorities shall accept approvals in accordance with UN Regulation No 160 granted outside the EU as an alternative to an approval in accordance with 01 Series of Amendments to UN Regulation No 160, for the purposes of granting an EU approval in accordance with this Regulation until 1 July 2024.

⁽⁶⁾ Directive 2014/45/EU of the European Parliament and of the Council of 3 April 2014 on periodic roadworthiness tests for motor vehicles and their trailers and repealing Directive 2009/40/EC (OJ L 127 29.4.2014, p. 51).

⁽⁷⁾ Commission Implementing Regulation (EU) 2019/621 of 17 April 2019 on the technical information necessary for roadworthiness testing of the items to be tested, on the use of the recommended test methods, and establishing detailed rules concerning the data format and the procedures for accessing the relevant technical information (OJ L 108, 23.4.2019, p. 5).

2. With effect from 6 July 2024 national authorities shall, on grounds relating to event data recorders, prohibit the registration, sale and entry into service of new vehicles, where such vehicles do not comply with this Regulation and the technical requirements of 01 Series of Amendments to UN Regulation No 160, as certificates of conformity of such vehicles shall no longer be valid. However, national authorities shall accept approvals in accordance with UN Regulation No 160, granted outside the EU as an alternative to an approval in accordance with 01 Series of Amendments to UN Regulation No 160 for the purposes of registration, sale and entry into service of such vehicles in accordance with Articles 48, 49 and 50 of Regulation (EU) 2018/858 until 1 July 2026.

Article 7

Amendment to Regulation (EU) 2019/2144

Annexes I and II to Regulation (EU) 2019/2144 are amended in accordance with the Annex to this Regulation.

Article 8

Entry into force and date of application

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

It shall apply from 6 July 2022.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 26 January 2022.

For the Commission
The President
Ursula VON DER LEYEN

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Amendment to Regulation (EU) 2019/2144

Annex I to Regulation (EU) 2019/2144 is amended as follows:

‘160	Event Data Recorder (EDR)	01 series of amendments	OJ L 265, 26.7.2021, p. 3	M ₁ , N ₁ ’.
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In Annex II, in Part E, the row for requirement E5 is replaced by the following:

‘Subject	Regulatory acts	Additional specific technical provisions	M ₁	M ₂	M ₃	N ₁	N ₂	N ₃	O ₁	O ₂	O ₃	O ₄	STU	Component
E5 Event Data Recorder	Commission Delegated Regulation (EU) 2022/545 (*) UN Regulation No 160		B	D	D	B	D	D					B	

(*) Commission Delegated Regulation (EU) 2022/545 of 26 January 2022 supplementing Regulation (EU) 2019/2144 of the European Parliament and of the Council by laying down detailed rules concerning the specific test procedures and technical requirements for the type-approval of motor vehicles with regard to their event data recorder and for the type-approval of those systems as separate technical units and amending Annex II to that Regulation (OJ L 107, 5.4.2022, p. 18).’