Safety Systems, Solutions and Requirements

Introduction to the EU General Safety Regulation

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EU General Safety Regulation

• Context

The GSR introduces

- new systems to AVOID accidents
- improved active and passive safety measures,

both for PROTECTION of occupants as all active road users

for ALL ROAD VEHICLES*

(*Cars, vans, buses and trucks)
EU General Safety Regulation

• Context

The GSR concerns:

ALL ROAD VEHICLES
- Cars
- Vans
- Trucks
- Buses
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• Context

Despite high level of safety that offer all vehicles today

25 000 people die

135 000 people get seriously injured

every year on EU roads

(EU Press Release 06 July 2022)
EU General Safety Regulation

• Context

EU target

saving 25 000 lives and avoid 135 000 serious injuries

by 2038

(EU Press Release 06 July 2022)
EU General Safety Regulation

• Context

EU target

- by mandatory advanced driver assistant systems (ADAS)
- by legal framework for the approval of automated and fully driverless vehicles in the EU

(EU Press Release 06 July 2022)
EU General Safety Regulation

• Context

‘Today’s TECHNOLOGY helps us to increase the level of safety of our cars, and enable us to safely introduce autonomous driving’

Margarethe VESTAGER, former Executive Vice-President for a Europe fit for the Digital Age

‘Our vehicles are increasingly automated. With the new SAFETY LEGISLATION, Europe is making sure that technology improves our daily life and that the automotive industry has a predictable and safe framework to introduce innovative technology and maintain its global competitiveness’

Thierry BRETON, Commissioner, responsible for the Internal Market
EU General Safety Regulation

• Context

Time table / Key dates

2017 – public consultation by the EU Commission
‘How to improve vehicle safety measures?’

2022 – official introduction of the GSR (EU) 2019/2144 legislation
(6th of July 2022)
EU General Safety Regulation

• Implementation

2022 – official introduction of the GSR (EU) 2019/2144 legislation

06/07/2022 – New Vehicle Types

07/07/2024 – All New Vehicles
**EU General Safety Regulation**

- **New systems** to avoid accidents and **improved active and passive safety measures**, both for protection of occupants/driver and active road users (1)

<table>
<thead>
<tr>
<th>System / measure</th>
<th>Abbr.</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian and cyclist collision warning</td>
<td>MOIS</td>
<td>UNR 159</td>
</tr>
<tr>
<td>Blind spot information system</td>
<td>BSIS</td>
<td>UNR 151</td>
</tr>
<tr>
<td>Reversing detection</td>
<td>RCDS</td>
<td>UNR 158</td>
</tr>
<tr>
<td>Tyre pressure monitoring for heavy-duty vehicles</td>
<td>TPMS</td>
<td>UNR 141/01</td>
</tr>
<tr>
<td>Protection against cyberattacks</td>
<td>CS</td>
<td>UNR 155</td>
</tr>
<tr>
<td>Intelligent speed assistance</td>
<td>ISA</td>
<td>EUR 2021/1958</td>
</tr>
<tr>
<td>Emergency Stop Signal</td>
<td>ESS</td>
<td>UNR 048/07</td>
</tr>
<tr>
<td>Alcohol interlock installation facilitation</td>
<td>AIF</td>
<td>EUR 2021/1243</td>
</tr>
<tr>
<td>Driver drowsiness and attention warning</td>
<td>DDAW</td>
<td>EUR 2021/1341</td>
</tr>
</tbody>
</table>
EU General Safety Regulation

- **New systems** to avoid accidents and **improved active and passive safety measures**, both for protection of occupants/driver and active road users (2)

<table>
<thead>
<tr>
<th>System / measure</th>
<th>Phase</th>
<th>Abbr.</th>
<th>Regulation</th>
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<tbody>
<tr>
<td>Hydrogen system material qualification</td>
<td></td>
<td>H2</td>
<td>EUR 2021/535-XIV</td>
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<tr>
<td>Advanced driver distraction warning</td>
<td></td>
<td>-</td>
<td>new</td>
</tr>
<tr>
<td>Registration plate space (front + rear)</td>
<td></td>
<td>-</td>
<td>EUR 2021/535-III</td>
</tr>
<tr>
<td>Statutory plate and vehicle identification number</td>
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<td>-</td>
<td>EUR 2021/535-II</td>
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<tr>
<td>Heavy-duty vehicles direct vision</td>
<td></td>
<td>DV</td>
<td>new</td>
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<tr>
<td>Event data recorder</td>
<td></td>
<td>EDR</td>
<td>UNR 160</td>
</tr>
</tbody>
</table>

**07/07/2024 – 07/01/2026** – New Vehicle Types

**07/07/2026 – 07/01/2029** – All New Vehicles