EDR/DSSAD IWG

Status Report

September 2019

Geneva
Background

- ToR/Framework Document adopted at the 178th WP29 (June 2019, Geneva)

**TASKS:**
- Define the scope and specific objectives of and differences between EDR and DSSAD
- Define EDR and DSSAD technical requirements

**DELIVERABLES:**
- Identification of differences between DSSAD and EDR
- Requirements for DSSAD for Automated Lane Keeping Systems
- Requirements for EDR

[Working Structure/Schedule specified under the Framework document]

<table>
<thead>
<tr>
<th>GR</th>
<th>WP29</th>
<th>IWG to deliver:</th>
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</thead>
<tbody>
<tr>
<td>GRVA: Feb. 2020</td>
<td>Mar.2020</td>
<td>DSSAD technical requirements for ALKS</td>
</tr>
<tr>
<td>GRSG: Oct. 2020</td>
<td>Nov.2020</td>
<td>Review of the existing national/regional actives &amp; a proposed way forward for EDR/DSSAD</td>
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IWG Activities

• #1 IWG (8-9 July 2019, Brussels)

- Participation from EC, Germany, Japan, Korea, Netherlands, Sweden, UK, OICA/CLEPA, Organizations for PTI, Insurance, etc.
- Presentations on EDR/DSSAD comparison, EDR requirement/parameters and DSSAD requirement by Japan, CLEPA-OICA

Conclusion/Action Items:
- All documents to be further reviewed and discussed
- DSSAD: Ideas from parties were shared. Formatting the technical requirements was also considered.
- EDR: All to have a position as to whether the 1st step should be a copy/paste of the US EDR, or to be a further elaborated draft.
- All contracting parties to have a position with regard to the place of data storage, on-board or transmitted and stored at a backend.
IWG Activities

• #2 IWG (18-20 Sept 2019, Geneva)
  - Participation from China, EC, France, Germany, Japan, Korea, Netherlands, UK, US, OICA/CLEPA, Organizations for PTI, Insurance, etc.
  - Presentations on EDR/DSSAD comparison, EDR requirement/parameters and DSSAD requirement by China, Korea, EU, Japan, CLEPA-OICA, FSD

**Conclusion/Action Items:**
- The IWG reviewed the ToR and Framework document, and agreed on the tasks and deliverables assigned to the IWG under the ToR, and also confirmed the IWG commitment to work toward producing the deliverables according to the schedule as specified in the Framework document.
- The IWG discussed and agreed on the comparison table identifying the purposes and differences of EDR and DSSAD (as in the next slide)
- DSSAD: IWG explores ways to identify parameters to develop technical requirements.
- EDR: IWG initiated the review of draft technical requirements reflecting inputs from the parties taking care of the nature regarding data elements, event, capacity.
## EDR/DSSAD Comparison [Agreed Principle]

<table>
<thead>
<tr>
<th>Item</th>
<th>EDR for conventional vehicles</th>
<th>EDR for ADs</th>
<th>DSSAD (L3-L4)</th>
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<tbody>
<tr>
<td><strong>Scope (categories of vehicles in the text)</strong></td>
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<tr>
<td>Step 1: Passenger cars and light duty vehicles (Vehicle categories according to R.E.3: M1, N1)</td>
<td>Step 1: Passenger cars and light duty vehicles (Vehicle categories according to R.E.3: M1, N1)</td>
<td>[For ALKS: Any vehicle of automation level 3 or 4 with ALKS]</td>
<td>USA: disagreement to already include heavy duty vehicles</td>
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<td>Step 2: Heavy duty vehicles (Vehicle categories according to R.E.3: M2, M3, N2, N3)</td>
<td>[Heavy duty vehicles (Vehicle categories according to R.E.3: M2, M3, N2, N3)]</td>
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<tr>
<td><strong>System</strong></td>
<td>Purpose (why do the contracting parties want to introduce this function into the vehicle?)</td>
<td>Accident analysis</td>
<td>AD system operation status</td>
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Detailed comparison table: refer to “GRVA-04-17 (EDR/DSSAD)”
Future Schedule

Upcoming IWG meetings:
- #3 IWG: 10 - 12 December 2019 (Paris (OICA))
- #4 IWG: 28 - 30 January 2020 (Tokyo (JASIC))
- [#5 IWG: (date to be determine later (US DOT))]

Remaining Tasks:
- Revise/Finalize the DSSAD technical requirement
- Revise/Finalize the EDR technical requirement
- Propose way foward for DSSAD beyond ALKS
- Propose way foward for EDR for new challenges incl. for vulnerable road users

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<td>SEP</td>
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Request to GRVA

• IWG needs clear guidance on the scope for DSSAD
Request to GRSG

- IWG needs clear guidance to proceed with regard to the place to store the data considering
  1) Mandating the data to be stored onboard,
  2) Accept the possibilities of storing onboard and at a backend (and taking care of this within the proposal / retrieval means),
  3) Taking into account both possibilities, (onboard / backend) but not mentioning at all in the proposal
  4) Other.