[Review of the existing national / regional activities and a proposed way forward for DSSAD]

This document aims at providing information of the existing national / regional activities on DSSAD and a proposed way forward for DSSAD, per the request of WP.29 at their 178th session (June 2019) and the revised Framework Document ECE/TRANS/WP.29/2019/34/Rev.1.

According to the above document, the first deliverable of the IWG is the technical requirements dedicated to “Automated Lane Keeping System (ALKS) for low speed application” to be attached to the UN Regulation No.79 which has been developed in GRVA. The present document delivers an analysis of the national / regional activities on DSSAD, as expected from the IWG subsequent to the completion of activities with regard to ALKS.

**European Union**

1. **Review of the existing national / regional activities (European Union)**

The European GSR does not require motor vehicles to be equipped with the DSSAD. However, the EDR on automated vehicles must collect and store information on whether the driver or the system was in control of the vehicle at the moment of the collision.

2. **Way forward for DSSAD**

The European Commission will be constructively contributing to the development of the DSSAD requirements at the UNECE. After March 2020, this might include consideration of collection by DSSAD of a wider range of data, useful for the purposes of in-service monitoring.

**France**

1. **Review of the existing national / regional activities (European Union)**

Mandatory for testing

National decree 2018-211 related to automated vehicles testing on public road

extract: "The vehicles are equipped with a recording device making it possible to determine at any time whether the vehicle has been travelling in partial or total delegation of driving mode. The data is automatically and regularly deleted.

In the event of an accident, the data recorded during the last five minutes are kept by the authorization holder for one year."

2. **Way forward for DSSAD**

Expectation for real life

France strongly supports to have DSSAD as mandatory with accessible data for a duration from 6 months to one year (for needs of investigation or litigation between the driver and the manufacturer).

Manufacturers should ensure the integrity of such data during conservation times.
The data access interface in the vehicle must be, as most as possible, standard, and easy accessible for the police officer in the event of roadside control, whatever the model of the vehicle (a unique tool for connection to the vehicle).

Data recorded should be only all the status flags of the AD system (activation – deactivation, transition demand, emergency manoeuvre….)

**Netherlands**

1. **Review of the existing national / regional activities**

**DSSAD National activities of the Netherlands**

- **VSSF.** Development of a Vehicle Security and Safety Framework. This is a method to measure the maturity of an OEM in Security and Safety process for Vehicle software. RDW is developing it as a (self) certification framework which can be used in the type approval process.

- **VDLF.** Development of a Vehicle Driver License Framework. This is a method to test the autonomous capabilities of a vehicle, does the car behave like a driver, does it make the same choices? The VDLF results in a driver license for the vehicle.

- **ADAS Alliance.** Research has shown that consumers have little knowledge on how to use ADAS systems. This ADAS Alliance is supported by the Ministry, and its goal is to improve the knowledge and use of ADAS systems by consumers.

- **Testplan Roadsafety.** To determine Road safety issues of new developments in Vehicles and infrastructure (Road worker warning, ADAS (AEBS, LKA/LKS), Road lighting).

2. **Way forward for DSSAD**

**Way forward for DSSAD of the Netherlands**

- The Netherlands believes there are three important steps to test, admit and control automated components in vehicles and Autonomous vehicles:
  
  - VSSF for software in type approvals (see above)
  - VDLF for testing automated vehicles (see above)
  - DSSAD for monitoring the behaviour of the vehicle.

- That is why the DSSAD must also be used by a monitoring facility. With the data in the DSSAD, type approval authorities can check whether an automated component is still working within the boundaries of the type approval. They can check whether software updates are done (correctly), and check whether the vehicle still behaves like it is intended to do.

**United Kingdom**

1. **Review of the existing national / regional activities**

There are currently no activities in the UK regarding DSSAD, other than that related to the regulation being discussed.

2. **Way forward for DSSAD**

The UK is clear that the essential function of the DSSAD is to determine liability and legal responsibility. However, in-use compliance monitoring of automated systems will be necessary and
where the data required for this cannot be found elsewhere, the DSSAD should also perform this function.