German legislative framework on ADS
Data Storage Provisions

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Table of Content

- Introduction – timeline and structure of the national regulation
- Road traffic code provision on data storage – triggers and data categories
- Detailed provision on data elements

Introduction – timeline

28.07.2021 Law on autonomous driving in force

01.07.2022 Regulation on approval and operation of autonomous vehicles in force
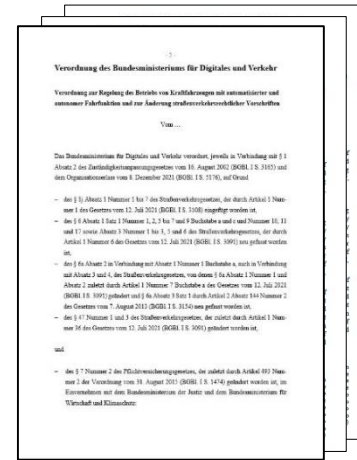
Introduction – structure of the German legislative framework

Law on autonomous driving

- Legal basis to change German road traffic code in order to integrate ADS

- Authorization to pass a regulation with detailed provisions for approval and operation of ADS

Regulation on approval and operation of autonomous vehicles in force

- Approval procedure for ADS

- Approval procedure for operational domain for ADS

- Registration procedure

- Operation and monitoring details

Road traffic code provisions on data storage

- Road traffic code § 1 g (2) defines triggers and data categories

- Data can be retrieved by the German Type Approval Authority (KBA)

- Data can be used …
    … to monitor the safe operation of the ADS.
    … for scientific research furthering the common welfare regarding public traffic.

General provision on data storage – triggers

Triggers:
1. Intervention by technical operator
2. Conflict szenarios, especially near misses and accidents
3. Unplanned maneuvers
4. Operational failures

General provision on data storage – data categories

1. VIN,
2. positioning data,
3. count and operation times of the ADS,
4. count and point in time of remote approval of alternative manoeuvres,
5. system monitoring data and software version,
6. environmental and weather data,
7. connectivity data (e.g. latency and bandwidth),
8. activated and deactivated safety systems, status of the systems, trigger
9. lateral and longitudinal acceleration,

10. velocity,
11. status of illumination systems,
12. status of the electrical power supply,
13. external commands sent to the automated driving system.

Deep dive:

data elements

Thank you