EDR-DSSAD: Comparison table

	Items	EDR for conventional vehicles	EDR for ADs	DSSAD (L3-L4)
Scope (categories of vehicles in the text)		Step1: Passenger cars and light duty vehicles (Vehicle categories according to R.E.3: M1, N1)		Step1: Passenger cars and light duty vehicles of automation level 3 or 4 with ALKS
		Step 2: [Heavy duty vehicles (Vehicle categories according to R.E.3: M2,M3,N2, N3)]		Step 2: Heavy duty vehicles
System	Purpose (why do the contracting parties want to introduce this function into the vehicle?)	Accident analysis		Research, monitoring, reliability, legal responsibility
	What the system should <u>not</u> do	 Detecting who is driving Identifying the owner/holder of the vehicle on the basis of the stored data. [Allowing for the tracking of the owner/the user/the holder of the vehicle] Providing information about the surroundings of the vehicle 		 Providing data that are already available in the EDR Identifying the user/owner/holder of the vehicle [Allowing for the tracking of the owner/the user/the holder of the vehicle]
	Recording period	[X s] before event / [X ms] after event	May be longer for AD system than for conventional vehicles	As long as ALKS is engaged/stand-by.
	System storage capabilities	At least [1 to 3] events		 Several months (relevant figure TBD) anticipated, or several thousands of interactions anticipated, whichever is achieved first.
	Capability to record data during a crash event	Resistance to high deceleration and mechanical stress of a severe impact		TBD

	Data survivability	Resistance to high deceleration and mechanical stress of a severe impact			
	after a crash event				
Trigger to initiate t		"Event" (e.g. crash): physical	"Interaction":		
	data storage	occurrence that causes the trigger	- change in the system operation		
		threshold to be met	status, or		
			- demand for a change in the system operation status		
	Battery restitution	All data mandatory per the table of	Final requirement to be aligned on		
	Duttery restriction	EDR parameters must be stored	demand from ACSF informal group		
		after an event.			
	Environmental	Out of scope: the vehicle is crashed	Requirements fully linked to those		
	robustness	when data are stored, and not	of DSSAD		
	(vibrations, etc.)	subject to any specific vibrations or			
		other environmental aggression			
	Malfunction	NA*	Requirements fully linked to those		
	detection	*EDR malfunction is not	of ALKS.		
		detrimental to occupant safety	DSSAD will self-diagnose via		
			ALKS		
	PTI	TBD	TBD		
Data					
technique	Where to store (in	Technology neutral provisions; the request is that "data are available a retrievable"			
	the vehicle vs. the				
	cloud)				
	Data format	The final authorized user (will be defined by national legislation) must g			
	D ()	the data in a comprehensive format,			
	Data element	TBD	TBD		
	Storing duration	Not less than 10 days after EDR is	Several months if EDR is not		
		triggered	triggered (to be determined		
			according to storage capacity)		
			Not less than 10 days after EDR is		
			triggered (same as EDR)		
	Retrieval means	Technical regulation is technology no			
	Accuracy	According to the table of EDR - Accuracy relevant for the			
		parameters	purpose (research, monitoring,		
		1	reliability, legal responsibility)		
			- The "data elements" must be		
			stored in the order of		
			occurrence.		
	Access means	eutral			
	Erasing means	FIFO type, when the memory is full, by overwriting			
	Sampling rate	About 100 Hz, depending on the	NA		
	D 4 1 400 41	parameter			
	Data identification	- VIN incorporated in data set if data			
	(this data really	- VIN optional in data set if data a	are stored inboard		
	belongs to that				
	vehicle)	Evennles high decoloration sinhes	Significant interactions between the		
	Triggering	Examples: high deceleration, airbag inflation, AEBS activation, ESF	Significant interactions between the ALKS and the human driver, when		
	parameter	activation, etc.	ALKS and the numan driver, when ALKS is engaged or in standby		
		activation, etc.	mode, and significant system		
			changes or malfunctions.		
			changes of manufictions.		