

Annex X

The reporting templates included in this annex aim at assuring the harmonization of the information to be reported and facilitating the information sharing.

However, the reporting shall be carried out according to the laws applicable in each contracting party and according to the information available to manufacturer.

I. Short term reporting

The following template aims at ensuring that a consistent and comprehensive set of information is delivered to the relevant authority to foster an effective application of the short-term reporting scheme.

The data elements marked with an asterisk (*) represent information immediately available to the manufacturers and that shall be reported as part of the mandatory reporting requirements in 5.X.Y. It is advised that the remaining applicable data elements are made available to the relevant-authority via collaboration with third-party stakeholders.

The data elements potentially containing intellectual property or sensitive data are marked with an “(IP/S)” indicator and shall remain confidential.

WHAT		
Entry name	Field to be filled	Type/size
Headline*		Text(200)
OCCURRENCE (CLASSIFICATION)*		
Occurrence/event class ¹		Text(50)
Occurrence/event type ²		Text(200)
OCCURRENCE DETAILS		
Weather conditions*		Text(20)
Lighting conditions*		Text(20)
ADS vehicle pre-occurrence speed*		Number(3) – [km/h]
ADS vehicle post-occurrence max deceleration*		Number(3) – [m/s ²]
ADS vehicle estimated pre-occurrence mass		Number(5) – [kg]
ADS vehicle telematics provided*		[Y/N]
ADS vehicle EDR data provided*		[Y/N]
ADS vehicle DSSAD data provided*		[Y/N]
ADS vehicle media provided ³		[Y/N]

¹ Those can be: critical occurrence/non-critical occurrence. If deemed, the manufacturer can use the short term template also for safety-relevant events to make sure that Authority is informed about the nature of the event.

² Ref Table X

³ Those can include dash-cam or other recording systems

Commented [A1]: FR: Does this mean that elements marked with * are mandatory? (The assessment part of ISMR makes reference to mandatory elements, but it is not clearly stated here).

Commented [A2R1]: Rephrased text

Commented [A3]: FR: Not all remaining data fits in this category (ex: ADS vehicle damage, ADS licence plate, VIN...)

Commented [A4R3]: Agree and added VIN number

Commented [A5]: FR: Is it sufficiently clear what are the classes and types that the text is referring to?

Commented [A6]: FR: Why add “event” as only occurrences are short term reported?

Commented [A7R6]: Agreed and rephrased

Commented [A8]: To check EDR in UNR-GTR scope

Commented [A9]: FR: shouldn't all the “provided” fields have an asterisk? The manufacturer always know if they have provided something or not.

Third-party sources media/telematics provided		[Y/N]
Occurrence reported to the police		[Y/N]
Police report available		[Y/N]
ADS feature type at occurrence		Text(50)
(ADS) users available at occurrence		[Y/N]
(ADS) users attempted takeover		[Y/N]
WHEN*		
UTC date		[YYYY/MM/DD]
UTC time		[HH:mm]
Local date		[YYYY/MM/DD]
Local time		[HH:mm]
WHERE		
Country		Text(50)
State/Province		Text(50)
City		Text(50)
ZIP code (if applicable)		Number(10)
Street/Intersection		Text(50)
GNSS coordinates ⁴ * (IP/S)		[longitude, latitude] [Decimal degree]
Scenario within ODD*		[Y/N]
Speed limit at location*		Number(3) – [km/h]
Roadway type*		Text(50)
Roadway surface*		Text(50)
Roadway description*		Text(100)
DAMAGE⁵		
Highest damage		Text(20)
ADS vehicle damage level		Text(20)
ADS vehicle damage location		Text(20)
Highest damage to other object		Text(20)
Object damaged (level)		Text(50)
		Text(50)
		Text(50)
		Text(50)

Commented [A10]: Uk/Pete: We should be clear what this means in practice We should be clear what this means in practice

Commented [A11R10]: OPI: we will check with the user requirement

⁴ GNSS coordinates, if available and applicable, can be used instead of country/state/city/ZIP/street localization.
⁵ Collision Deformation Classification (CDC) or the Vehicle Damage Index (VDI) shall be provided if applicable

INJURY⁶		
Maximum [injury level]		Text(50)
Total fatalities ADS vehicle		Number(3)
Total fatalities other road user		Number(3)
Injured [road user type]		Text(50)
Total serious injuries ADS vehicle		Number(3)
Total serious injuries other road user		Number(3)
Road user type		Text(50)
Total [minor] injuries ADS vehicle		Number(3)
Total minor injuries other road user		Number(3)
Road user type		Text(50)
Total unknown injuries ADS vehicle		Number(3)
Total unknown injuries other road user		Number(3)
VEHICLE		
Vehicle Identification Number* (IP/S)		Text(17)
Serial number (IP/S)		Text(50)
License plate (IP/S)		Text(10)
State/Country/Province of registry		Text(50)
Vehicle category*		Text(50)
Manufacturer*		Text(50)
Model*		Text(50)
Model Year*		Number(4)
Mileage		Number(9)
ADS version* (IP/S)		Text(50)
ADS licensing		Text(50)
Operator (if any)		Text(50)
Other ADS features type		Text(50)
NARRATIVE*		
Description of the event and post-crash behaviour ⁷		

Commented [A12]: Corrected the link due to a change of url

Commented [A13]: FR: Is this the highest injury level for the occurrence?

Commented [A14R13]: Agreed and rephrased

Commented [A15]: FR: It is not clear how this is linked to other lines (above/below?)

Commented [A16R15]: The intent here is to identify which kind of road user suffered an injury as part of the occurrence

Commented [A17]: FR: CADaS taxonomy is "slight"

Commented [A18R17]: If we decide to go for the CaDAS taxonomy we will revise text

Commented [A19]: Original intent is to cover other ADS feature types featured in the ADS vehicle. For instance, user expected vehicle to be type-II (L4) but vehicle was in type-I (L3)

⁶ Supporting information can be derived from CADaS taxonomy (https://road-safety.transport.ec.europa.eu/system/files/2021-07/cadas_glossary_v_3_7.pdf) or from Abbreviated Injury Scale (<https://www.aaam.org/abbreviated-injury-scale-ais/>)

⁷ If possible digital reconstruction files shall be provided (e.g. PC CRASH files, etc.).

Post-crash behaviour	
ANALYSIS*	
Root cause analysis	
Corrective implementing action	
REPORT MANAGEMENT*	
Reporting entity	Text(100)
Report ID	Text(240)
Report version	Number(10)
Report status	Text(100)
Report date	[YYYY/MM/DD]
Parties informed	Text(100)

Commented [A20]: FR: These fields should be mandatory

Commented [A21R20]: Agreed and added specifications

II. Periodic reporting

The periodic templates provide a list of information with corresponding specifications that should be made available to the authority on a yearly basis.

The following template aims at ensuring that a consistent and comprehensive set of information is delivered to the relevant authority to foster an effective application of the periodic reporting scheme. Further granularity of the information can be considered depending on the ADS use cases.

The data elements marked with an asterisk (*) represent information retrievable by the manufacturer on a periodic basis and that shall be reported as part of the mandatory reporting provisions in 5.X.Y. It is advised that the remaining applicable data elements are made available to the relevant authority via collaboration with third-party stakeholders.

ADS IDENTIFICATION*		
Entry name	Field to be filled	Type/size
ADS manufacturer		Text(50)
ADS licensing authority(ies) (if applicable)		Text(50)
ADS version		Text(50)
ADS feature type		Text(50)
Vehicle model		Text(50)
Model year		Text(50)
ADS OPERATION INFORMATION*		
Number of vehicles featuring ADS		Number(10)
Cumulative distance travelled by operational ADS		Number(10)
Cumulative time travelled by operational ADS		Number(10)
Average ADS time engagement		Number(10)
OCCURRENCES AND SAFETY RELEVANT EVENTS ASSESSMENT*		
Cumulative number of occurrences		Number(10)
Occurrences covered under the short-term reporting provisions		Number(10)
• Critical occurrences known to the manufacturer		Number(10)
• Occurrences related to ADS operation outside its ODD		Number(10)
• ADS failure to achieve a minimal risk condition when necessary		Number(10)
• Other Indications of failure to meet safety requirements		Number(10)
• Occurrences related to safety-relevant performance issues constituting an unreasonable risk to safety.		Number(10)
Occurrences covered under the periodic reporting provisions		

Commented [A22]: UK/Pete: May also want to include the SMS certificate number (if they have one) to know what SMS covers the vehicle/ADS
Could included future plans changes they were planning to make in the next reporting period

Commented [A23R22]: OPI: noted, we will include based on the Outcome of the discussion on SMS CoC

Commented [A24]: UK/Pete: The Periodic reporting should contain a free text "section" has some indicative questions that the applicant should address for example: Overall adherence to the ADS SMS
Assessment of whether the ADS as performing as expected
Assessment of whether the indicators are showing any trends
Concerns and action plan
...

Maybe it should also contain a declaration that the ADS Is still safe?

The periodic report should report aggregated details, but it should also contain something that is an "executive summary" of the performance and is "signed off" by a suitably responsible person.

Commented [A25R24]: OPI: agreed

Commented [A26]: FR: Does this mean that elements marked with * are mandatory? (same remark as for short-term part)

Commented [A27R26]: Agree and rephrased

Commented [A28]: FR: All data seems marked with an * in this part.

Commented [A29R28]: We think everything we are demanding here should be retrievable within one year thus everything is mandatory. It is good to retain the possibility of further discuss flexibility by means of (*)

• Occurrences related to Transfer of Control failure		Number(10)
• Occurrences related to communication issues		Number(10)
• Occurrences related to cybersecurity issues		Number(10)
• Occurrences related to failure scenarios		Number(10)
• Maintenance and repair problems to ADS and its components		Number(10)
• Occurrences related to unauthorized modifications		Number(10)
• Unknown scenarios encountered by the ADS		Number(10)
Safety relevant events covered under the periodic reporting provisions		Number(10)
• Events where an activated ADS feature required interaction with a remote assistant to navigate a driving situation (if applicable)		Number(10)
• Fallback user unavailability (where applicable)		Number(10)
• Prevention of takeover under unsafe conditions (where applicable)		Number(10)
OCCURRENCES SAFETY OUTCOME*		
Fatalities		Number(10)
• ADS vehicle occupants		Number(10)
• Other road users		Number(10)
Serious injures		Number(10)
• ADS vehicle occupants		Number(10)
• Other road users		Number(10)
Minor injures		Number(10)
• ADS vehicle occupants		Number(10)
• Other road users		Number(10)
Unknown injures		Number(10)
• ADS vehicle occupants		Number(10)
• Other road users		Number(10)
Accident and serious incidents		Number(10)
Minor incidents		Number(10)
OCCURRENCES AGGREGATE DESCRIPTION*		
Collision with:		-
• Passenger car		Number(10)
• VAN		Number(10)

Commented [A30]: FR: I suggest adding a placeholder for FR proposal "Emergency/complex manoeuvres to prevent a collision" (to be discussed in 2025)

Commented [A31]: FR: slight (CADaS taxonomy)

Commented [A32]: FR: I don't think "accident", "serious incidents" and "minor incidents" are defined. Maybe remove these 2 lines.

• Truck		Number(10)
• Bus		Number(10)
• Other: Vehicle		Number(10)
• Motorcycle		Number(10)
• Cyclist		Number(10)
• Pedestrian		Number(10)
• Other: VRU		Number(10)
• Animal		Number(10)
• Fixed object		Number(10)
• Unknown		Number(10)
• ADS vehicle damage level		-
• Destroyed		Number(10)
• Substantial		Number(10)
• Minor		Number(10)
• Unknown		Number(10)
ADS vehicle damaged area		-
• Front		Number(10)
• Front-left		Number(10)
• Front-right		Number(10)
• Rear		Number(10)
• Rear-left		Number(10)
• Rear-right		Number(10)
• Left		Number(10)
• Right		Number(10)
• Top		Number(10)
• Bottom		Number(10)
• Unknown		Number(10)
ADS SAFETY GAP*		
ADS discovered safety gaps		Number(10)
Gap #1:		Text(500)
Gap #2:		Text(500)
ADS status of addressed safety gaps (if any)		Number(10)
Gap #1:		Text(500)
Gap #2:		Text(500)
ADS how safety gaps are have been addressed and how		Number(10)
Gap #1:		Text(500)
Gap #2:		Text(500)

Commented [A33]: FR/ What is the difference between this and “ADS addressed safety gaps (if any)” above? Maybe group?

Commented [A34R33]: The intent here is to explain how the safety gap has been addressed. The one above is either the safety gap has been addressed. Try to rephrase for clarity

REPORT MANAGEMENT*		
Reporting entity		Text(100)
Report ID		Text(240)
Report version		Number(10)
Report status		Text(100)
Report date		[YYYY/MM/DD]
Parties informed		Text(100)

Commented [A35]: UK/Pete: Manufacturer-Year-Incident#-version. (Added version to allow for updates as more information emerges)

Others probably have more experience of generating appropriate "incident numbers".

Commented [A36R35]: OPI: to be discussed in the meeting