18th GRVA, 22-26 January 2024 Agenda item 4(b)

Status Report of Informal Working Group on Validation Methods for Automated Driving (VMAD)

United Nations Economic Commission for Europe (UNECE)
Working Party on Automated/Autonomous and Connected Vehicles (GRVA)
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Palais des Nations



Contents



To provide a status update on the work of the Informal Working Group on Validation Methods for Automated Driving (VMAD):

- Brief review of work and deliverables until June 2024
- VMAD IWG activities since GRVA 17th (September 2023)
- Future activities

VMAD Deliverables until the WP.29 June

2024



June 2024 (WP.29)

LULT		
Activities	Deliverables	Timeline
 Start of development of safety verification methods, linking to the status of FRAV's consideration of technical requirements for DDTs, etc. 	2nd iteration of the Guidelines for NATM including outcome of "outstanding issues"	January 2023 (GRVA, information: <i>GRVA-15-26</i>), May 2023 (GRVA, adopt),
 Description how to create and maintain the catalogue for scenarios (SG1) 		June 2023 (WP.29)
 Description of the credibility assessment (SG2) 		
 Description of ISM&R (SG3) 		
Description for RWT (SG4)		
Progressive increase in FRAV-VMAD collaboration towards 2024 deliverable of consolidated submission.	Consolidated FRAV/VMAD submission (requirements+assessment)	January 2024 (GRVA, information),
		May 2024 (GRVA adopt),

VMAD activities since GRVA #17 (1)



- VMAD held its meetings on November 6 (#33) and December 14 (#34)
- VMAD activities are conducted by the four sub-groups work on their respective outstanding issues of work and to incorporate the results of their work into the guidelines.
- In addition, we have worked together with FRAV in a coordinated and steady manner, to a great extent via the Integration Group (separate report)

VMAD activities since GRVA #17 (2)



Sub-group activities

- Scenarios: Latest amendments for the Scenario section have been discussed and accepted
- Simulation: No new issue, ready
- Audit/In-Service Monitoring & Reporting: "Safety case", "Safety concept" and "Critical occurrence" definitions are resolved. Some items are not resolved (e.g. ISMR reporting template)
- Track-/Real World testing: Generally, we have found consensus on different proposals.
 Some items are not resolved (e.g. Real-World test scenarios / engineered test routes protocols)

Future activities VMAD



- No separate meetings for VMAD
- VMAD would be as a part of the Integration Group and the VMAD subgroups may be held if necessary

Thank you!

