

Submitted by the IWG on VMAD

Informal document **GRVA-08-07**
8th GRVA, 14-16 December 2020
Agenda item 3(b)

Status Report of the 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)
December 14-16, 2020
WebEx



UNECE

Purpose



- To provide a status update on the work of the Validation Methods for Automated Driving (VMAD) Informal Working Group (IWG). Specifically the following:
 - Deliverables,
 - VMAD Sessions since September 2020,
 - NATM Master Document,
 - Next Steps

VMAD Deliverables to the World Forum for Harmonization of Vehicle Regulations (WP.29)



Based on the Framework document, VMAD has the following deliverables to WP.29:

Deliverables	Status
1. The test and assessment (including CEL) for Automated Lane Keeping Systems (ALKS) of SAE levels 3/4 compatible as a new UN Regulation for contracting parties to the 1958 agreement*	Completed – March 2020
2. Review of the existing and upcoming methods and a proposed way forward for the assessment of automated driving (AD)	Completed – March 2020
3. New assessment/test method (NATM) of AD	March 2021

Recent VMAD Sessions



VMAD has held three VMAD sessions since the last GRVA

- At 13th VMAD session on 9th October, a revised Master Document (VMAD 13-03) was tabled for comments.
- At 14th VMAD session on 5th and 6th November, comments received from 7 stakeholders were considered, and VMAD Subgroups (SGs) were tasked with revising their respective sections of the Master Document based on feedback received during the session.
- At 15th VMAD session on 4th December, an updated Master Document (VMAD15-03) compiling SG revisions/comments, Co-chair updates of general sections along with other edits proposed by VMAD stakeholders was tabled.

NATM Master Document



- The updated NATM document was reviewed at the 15th VMAD session, and all of the proposed edits were agreed.
- Update from SGs on work to identify and address outstanding issues was also received.
- Also recognized as an outstanding issue was Section 12 which is expected to describe how the NATM links with the functional safety requirements developed by FRAV.

Next Steps



- **VMAD and its sub-working groups will continue to work together to:**
 - SGs were be tasked with continuing to meet to discuss their outstanding issues and propose edits accordingly to the NATM Master Document
 - Integrate the work done by each SGs to further revise the NATM Master Document for submission to GRVA in February 2021
 - Scope out and implement workplans to further develop the NATM Master Document.
- **Recognizing the synergies between FRAV and VMAD, the two IWGs will continue to collaborate to advance our respective workplans.**
- **VMAD deliverables for discussion at next GRVA**
 - Final Draft Master Document
 - List of open issues as appropriate including possible future work

Upcoming VMAD Sessions



- **VMAD will hold its 16th Session on 14th and 15th January 2021.**
- Deadline for SGs to submit further edits to the secretariat in advance of the next VMAD meeting is January 8th.
- VMAD stakeholders will consider these revisions at the 16th VMAD session and establish the final draft of the Master Document for submission in advance of the 9th GRVA Meeting.

Thank you!

