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| Transmitted by the expert from EC to VMAD SG2 |  |

**Meeting of the VMAD SG2 on Virtual/Simulation Testing**

Date/Time: 09 December 2020. 13:00-14:00 (CEST)

Attendance: SG2 chair (EC), SG2 Members (~35 attendees)

Documents shared during the meeting: *2020\_12\_09\_VMAD-SG2.pptx*, *NTAM-MasterDocument-Chapter6-rev1.5\_comments.docx*

**Summary**

* The EC gave a summary of the Subgroup's strategy and proposed to focus the attention of the last meetings before the Christmas break to finalize section 1, 2, 3, and 6 of the current version of the document.
* Key comments provided by stakeholders on the document prior to the meeting were reviewed.
* Comments from all Members will be consolidated and EC/CLEPA will provide an updated document to the group ahead of the next meeting in order to receive final comments.
* The group will work until the end of the year on the new version of Chapter 6

**Minutes**

EC recalled the status of deadline and strategy for VMAD submission and proposed to focus on the sections that can be reasonably completed and agreed in the time available, namely section 1 on common definitions, section 2 on introduction, section 3 on the main elements of the pillar (the current version of the virtual testing chapter in the NATM document) and section 6 on the relationship with the other pillars.

AAPC: The work of the SG is fine and beyond the duty. Focusing on the sections that are more likely to be part of the master document is a good strategy.

EC opened the document going through the comments received so far in the sections that will be considered at this stage.

AAPC: Rephrasing ‘Common Definitions’ to ‘Common Terms’ to avoid objections from stakeholders

EC: propose to also add ‘Proving ground’ definition in the common terms

AVL: Distinguish between ‘Over-the-Air’ vs. ‘Injection’ stimulation in the ‘Common Terms’ section

SAFE: ‘Parametrization’ is the process of resolving names into values, the definition is more biased towards ‘Calibration’ rather than ‘Parametrization’

OICA: Revise the definition of ‘Closed-loop-Testing’ to be coherent with the rest of test

EC: Not clear the meaning of one of the bullet points in par 6.2 (Approaches to assess the accuracy of virtual testing)

AAPC: Revise previous draft for wording

SAE: There appears to be a search and replace ‘Simulation’ for ‘Virtual Testing’ but the document is entitled ‘Simulation/Virtual Testing’. Will the document include a differentiation between the two elements?

EC: ‘Data Gathering’ is a part of ‘Controllability’ strength

SAFE: ‘Controllability’ is how simulation is defined vs. ‘Data Gathering’ is how data can be accessed

EC: Agreed, keep ‘Data Gathering’

EC: To Add ‘Reproducibility’ as simulation strength

SAFE: The sentence “Further research activities will be needed to understand the suitability of the tool also in the potential tests required by the certification process” seems inappropriate considering the role played by simulation in other fields

EC clarified that research is needed to allow the use of virtual testing by third parties

EC: Linkage between Virtual Testing and audit is not explicit in the current version of the document

SAE: agree

**Action points**

* (Biagio/EC and Barnaby/CLEPA) Consolidate the comments from Members and provide and updated document to the group by the beginning of CW 52.
* SG2 members to provide comments on the new version of the document before the last meeting of the year

**Next meeting**

* Time: 23 December 2020, 13:00 - 14:00 CET
* Venue: Webex (https://ecwacs.webex.com/meet/bciuffo)