**TF EMC 18th Meeting**

### Meeting Minutes – Revision 2

Schedule: 15th July 2019 / 9:00 – 12:00

Telco/Webco: Telephone/Webconference (arranged by OICA)

Secretary: J.M. Prigent (OICA)

\*

\* \*

**Attendees:**

Ariel Lecca (OICA) / JM Prigent (OICA) / Zhang Xu (CN)\* / Liu Haiming (CN)\* / Ji Guotian (CN)\* / Hideki Yoshida (OICA) / Akihiko Nojima (JP) / Shinichiro Itoh (JP); Koji Maeda (JASIC) / Hitoshi Tskukahara (OICA) / Mr. Mizutani (OICA) / Krister Kilbrandt (SW)\* / Benoit Job (OICA) / Frank Golisch (OICA) / Walter Savio (IT) / Subrat Kumar Dash (IN) / Varun Sharma (IN) / Ole Hammer (DK) / Mark Grainger (UK) / Derwin Rovers (NL)\* / Benoit Moreau (OICA) / Ayhan Gunsaya (OICA)\*

\_\_\_\_\_\_\_\_\_\_\_

\*) partly

1. **Approval of the draft agenda**

Document: [TF-EMC-18-01 Draft Agenda\_Rev02](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-01%20Draft%20Agenda_Rev02.docx?api=v2)

The Agenda revision 02 is adopted.

1. **Approval of the meeting minutes of last session**

Document: [TF-EMC-17-10e Draft report](https://wiki.unece.org/download/attachments/80380152/TF-EMC-17-10e%20Draft%20report.docx?api=v2)

The minutes are approved.

1. **Development of R10.06 - Information**

Document: [WP.29/2019/20](https://www.unece.org/fileadmin/DAM/trans/doc/2019/wp29/ECE-TRANS-WP29-2019-020e.docx) Proposal for a new 06 series of amendments to UN Regulation No. 10

Just for information: Fully adopted in WP.29 March 2019 session.

1. **Development of R10.07**

Documents: [TF-EMC-18-02\_R10\_0X\_Roadmap\_Rev3\_160719](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-02_R10_0X_Roadmap_Rev3_160719.xlsx?api=v2)

[TF-EMC-17-06-OICAEMCJAMAStudyofvehicleBCImethodfor UNR10](https://wiki.unece.org/download/attachments/80380152/TF-EMC-17-06-OICAEMCJAMAStudyofvehicleBCImethodfor%20UNR10.pdf?api=v2) *(for info)*

[TF-EMC-17-07-UK 7 SMMT EMC Proposal for R\_10-07 roadmap 180219](https://wiki.unece.org/download/attachments/80380152/TF-EMC-17-07-UK%207%20SMMT%20EMC%20Proposal%20for%20R_10-07%20roadmap%20180219.pdf?api=v2) *(for info)*

[TF-EMC-17-08-Question from Netherlands](https://wiki.unece.org/download/attachments/80380152/TF-EMC-17-08-Question%20from%20Netherlands.pdf?api=v2) *(for info)*

[TF-EMC-18-03-N518\_Impact\_of\_charging\_current\_quantity](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-03-N518_Impact_of_charging_current_quantity.pdf?api=v2)

[TF-EMC-18-04-Presentation\_Radiated\_Emission in DC Charging mode](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-04-Presentation_Radiated_Emission%20in%20DC%20Charging%20mode.pdf?api=v2)

[TF-EMC-18-05 -NL\_Proposal\_Paragraph 3\_1\_8](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-05%20-NL_Proposal_Paragraph%203_1_8.pdf?api=v2)

[TF-EMC-18-06\_NL\_Question\_abpout\_eCall.pdf](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-06_NL_Question_abpout_eCall.pdf?api=v2)

[TF-EMC-18-07\_Danmark\_Definition\_of\_immunity\_related\_function.pdf](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-07_Danmark_Definition_of_immunity_related_function.pdf?api=v2)

[TF-EMC-18-08\_China\_Proposal on DCcharging current Setup.pdf](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-08_China_Proposal%20on%20DCcharging%20current%20Setup.pdf?api=v2)

Document “[TF-EMC-18-02\_R10\_0X\_Roadmap\_Rev3\_160719](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-02_R10_0X_Roadmap_Rev3_160719.xlsx?api=v2)” is updated to ”[TF-EMC-18-09\_R10\_0X\_Roadmap\_Rev4\_160719](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-02_R10_0X_Roadmap_Rev3_160719.xlsx?api=v2)”

Item 39 (NL1) – 48 V topic

* Discussion on the schedule for ISO 7637-2 in regard to the schedule of R10.07.
* Short explanation about the ongoing work in ISO 7637-2.  
  In ISO/TC22/SC3/WG3 the new version of ISO 7637 will not be finalized before 2021. At “DIS” stage there may be a proposal, which can be integrated in R10.
* NL is still concern about the timing as it is nearly 2 years. Could it be possible to include 48V before in R10?
* Discussion, if this topic can be added as a supplement/amendment: It should be integrated in a package.
* The TF EMC didn’t discuss yet about the schedule of R10.07 and when text will be proposed to GRE.
* After the next WG3 meeting May 2020 Frank Golisch should inform about the status of 48V impulse at GRE 83
* Also, NL asks to have a short report on the roadmap to next GRE in October to be able to give some guidance to GRE experts. It is understood, that the TF should hurry up but also to have robust requirements/test procedures.

Item 40 (NL2) - Question from NL if there is a reference in 3.1.8. to check the Annex 2A-63

* Review of [TF-EMC-18-05 -NL\_Proposal\_Paragraph 3\_1\_8](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-05%20-NL_Proposal_Paragraph%203_1_8.pdf?api=v2)
* Wish of the NL type approval authorities to enhance the delivery of the data described in 3.1.8
* Proposal: should be noted in the information document, as described in   
  Annex 2A; item no. 63
* Possibly an enlargement of Annex 2A; (e.g. item no. 63) may be proposed by NL
* Proposal of NL will be delivered
* Comment DK: just a proposal for the format; not to force an exact format
* NL is asking to submit as a package as supplement / amendment to R10.06, not to wait for UN R10.07. To be discussed by TF in roadmap/schedule discussion

Item 41 (NL3)- eCall – Test procedure

* Review of [TF-EMC-18-06\_NL\_Question\_abpout\_eCall.pdf](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-06_NL_Question_abpout_eCall.pdf?api=v2)
* Derwin Rovers emphasize the wish of GRE, to get a more clear description of EMC test of eCall-systems by the TF EMC
* This is issue is less urgent.
* The TF will consider this item in future. Was added in the roadmap as NL3

Item 34 (UK6)

* Ongoing, clarification needed

Item 32 (Japan 6)

* This is a manufacturer proposal, so this is not anymore Japanese one
* Proposal will be delivered by OICA TF EMC

Item 31 (FR7)

* Waiting for proposal from France
* Proposal will be delivered by OICA TF EMC

Item 30 (JP4&5)

* Proposal will be delivered by OICA TF EMC

Item 24 (GER3)

* Presentation of document “[TF-EMC-18-03-N518\_Impact\_of\_charging\_current\_quantity](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-03-N518_Impact_of_charging_current_quantity.pdf?api=v2)” by Japan
  + There is no significant differences and the current has no effect to the measurement. It could be conducted even at 0% instead of 80%.
* Presentation of document “[TF-EMC-18-08\_China\_Proposal on DCcharging current Setup.pdf](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-08_China_Proposal%20on%20DCcharging%20current%20Setup.pdf?api=v2)” by China
  + Recommendation to perform at 20%.
* Presentation of document “[TF-EMC-18-04-Presentation\_Radiated\_Emission in DC Charging mode](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-04-Presentation_Radiated_Emission%20in%20DC%20Charging%20mode.pdf?api=v2)” by Frank Golisch
* All documents show a reduction of the charging current doesn’t show an impact on the emc emission.
* DK: Question: Time for stabilization of charging current? 2 minutes  
  Authorities needs a closer look to this.  
  Support a value of not lower than 20% current because of experience with switching converter.
* Italy – not supporting the 0%, but 20% are ok
* Sweden: 20% as nominal value, because there are vehicles with additional systems which won’t work at 0%
* Japan: Question: How to distinguish the noise coming from DC-charger?
  + China will provide more information about this topic
  + Charging current value will be discussed internally; 20% can be agreed; but even for ultra-quick charger 20% can be a severe request (e.g. for 1kA charger, 200A can be difficult for testing)
* Conclusion:
  + CN/UK/IT/JP/SW/DK support proposal to change the requirement in R10 from 80% to minimum 20% for DC Charging

Item 23 (JP3)

* Without justification, some CPs couldn’t accept this proposal.
* Proposal will be delivered by OICA TF EMC
* JAMA will continue the prepare some data
* DK: Hint, there charging stations in residential areas – so DK cannot support this proposal

Item 22 (JP2)

* Proposal will be delivered by OICA TF EMC and to ISO WG3

Item 21 (JP1)

* No new information yet
* A.I.: All technical services and CPs are asked for input regarding the consideration of ICCB to be seen as part of vehicle or a s a separate – how it is considered in their country (Secretary).

Item 19 (FR5)

* Proposal will be delivered by OICA TF EMC

Item 17 (Reyntjens 1&2) - General topics on buses:

* Belgium representative is not anymore in charge of EMC.
* This subject is under responsibilities of power suppliers and supplier of HV-equipment. So, it is difficult for TF EMC to get input. It is required to such kind of vehicle manufacturer to get information.
* Conclusion:  
  To ask outside of UNECE if any representative of trolley & bus could work on this topic and participate to TF EMC. Difficulty to find representative.

Item 14 (JP0)

* Proposal will be delivered by OICA TF EMC

Item 13 (UK1)

* Questionnaire has been issued by OICA EMC TF.
* Some answers show interest to develop a dedicated TF to virtual testing.

(positive answer from JAMA, France and Germany, some interest from NL and UK)

Item 12 (GER2)

* Waiting for more clarified data.

Item 11 (GER1)

* Proposal will be delivered by OICA TF EMC

Item 7, 4, 10 (UTAC0&17&23)

* No proposal yet

Item 36 (UK7)

* [TF-EMC-17-07-UK 7 SMMT EMC Proposal for R\_10-07 roadmap 180219](https://wiki.unece.org/download/attachments/80380152/TF-EMC-17-07-UK%207%20SMMT%20EMC%20Proposal%20for%20R_10-07%20roadmap%20180219.pdf?api=v2)
* It is needed to work more under OICA TF-EMC. This is a long-term issue.
* Some proposal from DE was presented last OICA TF-EMC session and it should be combined.
* OICA TF EMC to provide consolidated proposal

Item 37 (UK8)

* Proposal will be delivered by OICA TF EMC

Item 38 (UK9)

* UK to reword a proposal and discuss first in OICE TF-EMC.
* Proposal will be delivered by OICA TF EMC

Item 40 (UK10)

* Proposal will be delivered by OICA TF EMC
* Explanation of the background by Ayhan Gunsaya

Item 46 (DK1) - Clause 2.12 in R10: precision to be added at ESA level.

* Review of the file “[TF-EMC-18-07\_Danmark\_Definition\_of\_immunity\_related\_function.pdf](https://wiki.unece.org/download/attachments/86311443/TF-EMC-18-07_Danmark_Definition_of_immunity_related_function.pdf?api=v2)” by Ole Hammer
* DK: Preparation of an improved wording on ESA immunity related functions until end of August 2019 (A.I.)

1. **UN Regulation No. 116 (Anti-theft and alarm systems)**

Documents:    GRSG/2017/23 / GRSG/2017/24/Rev.1 /

GRSG/2017/25 and Corr.1 / GRSG/2018/25 /

GRSG/2019/7  
GRSG-116-06-Rev.1 / GRSG-116-07 / GRSG-116-08 / GRSG-116-09-Rev.1 / GRSG-116-40

Background from GRSG:

*xx. The expert from OICA informed GRSG about the work progress on the splitting of UN Regulation No. 116 (GRSG/2017/23, GRSG/2017/24/Rev.1, GRSG/2017/25 and its Corr.1) and as reflected in GRSG-116-06-Rev.1, GRSG-116-07 and GRSG-116-08. She invited all interested experts to send her their final comments not later than end of May 2019 to allow her to set up a task force to review the proposals and to prepare, in due time, the final versions of the draft official documents for submission to the secretariat. She added that the provisions of Annex 5 on electromagnetic compatibility (EMC) should be reviewed by the Working Party on Lighting and Light-Signalling (GRE), in particular by its Task Force on EMC.*

*xx. GRSG endorsed that request. The Chair announced his intention to inform, in a short term, the GRE Chair and WP.29 at its June 2019 session. GRSG agreed to resume consideration of this subject at its next session based on official documents.*

Proposal, to prepare the revision on the three EMC annexes of the three new UN regulations by OICA TF EMC and present in next TF EMC.

The three new draft documents of R116 will be submitted informal in September 2019 to GRSG. So the draft will be distributed by end of August.

1. **Preparation of GRE 82**
   * NL requests a report on items 48V and §3.1.8
   * Roadmap on Amendments /supplements on UN R10.06 and on UN R10–07
   * Overview on the work of EMC TF
2. **Next meeting dates and location**

19th TF EMC – September 26th, 2019; 9:00 -12:00 Telco/webconference

1. **Adjourn**

\*

\* \*