

**GRE Informal Working Group on
Simplification of the UN Lighting and Light Signalling Regulations (SLR)**

54th meeting
WebEx, 23-25 March 2022

REPORT

		Documents
1.	Welcome and opening remarks The Chairman opened the meeting by welcoming all the participants.	
2.	Introduction of participants and organisations A list of all participants is available in Annex 1 to this Report.	
3.	Adoption of the agenda The agenda was adopted with the insertion of new documents. A revised agenda, reflecting the agreed modifications, was circulated as document SLR-54-06/Rev.1.	SLR-54-06
4.	Approval of the reports of the previous sessions - Report 44 th meeting - WebEx, 12-14 January 2021 - Report 45 th meeting - WebEx, 17-19 February 2021 - Report 46 th meeting - WebEx, 24-26 March 2021 - Report 47 th meeting - WebEx, 10-12 May 2021 - Report 48 th meeting - WebEx, 16-18 June 2021 - Report 49 th meeting - WebEx, 20-22 July 2021 - Report 50 th meeting - WebEx, 9-10 September 2021 - Report 51 st meeting - WebEx, 6-8 October 2021 - Report 52 nd meeting - WebEx, 15-17 December 2021 - Report 53 rd meeting - WebEx, 19-21 January 2022 SLR approved the reports from the 44 th to the 48 th sessions without modifications. The approval of the remaining SLR reports was postponed to the next session.	SLR-44-18 SLR-45-21 SLR-46-27 SLR-47-17 SLR-48-16 SLR-49-25 SLR-50-08 SLR-51-20 SLR-52-13 SLR-53-13
5.	Headlamp levelling Status of data collection from vehicle manufacturers and next steps All participants are asked to send anonymous vehicles data - both Type Approval data and CoP data - to OICA by 6 May 2022 using the blank template that can be found in SLR-54-11. The intention is to submit a first proposal to GRE-87 (Oct 2022) followed by a formal one for GRE-88 (Apr 2023). In order to avoid the proliferation of new series of amendments, this proposal will be one of the 3 main inputs to Reg. 48-09; the other two are “device transition” (SLR) and “answer-back signal” (SIG).	SLR-54-11

6.	<p>SLR submission to GRE-86</p> <ul style="list-style-type: none"> - UN Regulation No. 149.00 (based on SLR-52-01/Rev.2 + SLR-53-05/Rev.1) - UN Regulation No. 149.01 (based on SLR-52-01/Rev.2 + SLR-53-04/Rev.1 + SLR-53-05/Rev.1) - UN Regulation No. 148.01 (based on SLR-52-01/Rev.2, will become informal document) <p>The Secretary reported that the proposal for Reg. 148.01 was not submitted as a formal document for GRE-86. He explained that, since the corrections were purely editorial, they were reflected by the Secretariat in the WP.29 proposal for the 01 series of amendments to Reg. 148 (document WP.29/2022/92). However, for transparency purposes, SLR will submit its proposal for Reg. 148.01 (doc. SLR-54-01) to GRE-86 as an early informal document (will become GRE-86-03), only to show such corrections.</p>	<p>GRE/2022/8</p> <p>GRE/2022/4</p> <p>SLR-54-01 (GRE-86-03)</p>
7.	<p>Draft SLR status report to GRE-86</p> <p>The Secretary presented a draft progress report to GRE-86 (SLR-54-13). The document was improved by SLR and will be finalised in time for submission to GRE.</p> <p><i>Note: the SLR report to GRE-86 is now available as GRE-86-07.</i></p>	<p>SLR-54-13</p>
8.	<p>Extension of the SLR mandate; Update ToR</p> <p>The Secretary introduced the latest version of the proposal to extend the SLR mandate (document SLR-54-02), pointing out that it was based on the agreed SLR-53-07/Rev.1, with the addition of the justification.</p> <p>SLR improved the document, as reflected in SLR-54-02/Rev.1, and agreed to send it to GRE-86 as an informal document.</p> <p><i>Note: the SLR proposal to update the ToR is available as GRE-86-06.</i></p>	<p>SLR-54-02</p>
9.	<p>Consideration of alternative Transitional Provisions; Report back to GRE (see paragraph 10 of ECE/TRANS/WP.29/GRE/85 and item 4 (a) of GRE/2022/1)</p> <ul style="list-style-type: none"> - Discussion paper for SLR-54 - OICA input - IMMA input - OICA discussion paper to mandate 01 series devices in installation Regs. - CEMA input <p>SLR took note of the inputs provided by OICA, IMMA and CEMA and concluded to specify in Par. 6 “Individual specifications” of Reg.48 (starting from the 09 series) which series of amendments of lamps/devices are required to be installed on vehicles for new type-approvals, in order to enable the phase out of the installation of devices approved to the previous series of amendments.</p> <p>The same work will generate new series of amendments also for the other installation Regulations (namely Reg. 53, 74 and 86). SLR will also consider to amend Par. 12.7.4. of the Transitional Provisions to specify that extensions of approval are also included. For example: “...shall not be obliged to accept type approvals, and extensions thereof, issued to the preceding series...”</p>	<p>SLR-54-03</p> <p>SLR-54-07</p> <p>SLR-54-09/Rev.1</p> <p>SLR-54-10</p> <p>SLR-54-12</p> <p><i>For reference:</i> SLR-45-05 SLR-53-08, SLR-53-09/Rev.1 SLR-53-10, 12</p>

	The discussion will resume at the next SLR meeting on the basis of a draft concrete proposal for Reg. 48.	
10.	<p>Stage 2 / Step 2 - Specific items or general topics for consideration</p> <ul style="list-style-type: none"> - Presentations on apparent surface <ul style="list-style-type: none"> - <i>Input from The Netherlands</i> - <i>Input from SAE International</i> <p>Mr. van Laarhoven introduced the Dutch input regarding the measurement of the luminous area of an automotive lamp signal (doc. SLR-54-08), pointing out the problems, and complications, with the current definition of “Apparent surface”. He proposed an alternative method based on luminance and provided some examples.</p> <p>Mr. Gorzkowski observed that the it would be a good approach but quite late in the development stage since mouldings and products should already be available. Mr. Pernkopf commented that both method and equipment have to be standardised.</p> <p>Mr. van Laarhoven informed that the proposed method would be good for determining the contours of a lamp, with objective values in cd/m², therefore it could be useful for installation position purposes.</p> <p>Mr. Langhammer commented that different thresholds for different lamp functions should be defined and this would not be an easy task.</p> <p>Mr. Bailey reported that the proposed approach would improve, and simplify, the situation and would be easier to explain than today’s apparent surface.</p> <p>Mr. Larsen introduced the SAE paper (doc. SLR-54-14) explaining the Effective Projected Luminous Lens Area (EPLLA) and how to measure it, according to SAE J2999.</p> <p>SLR appreciated the input from SAE and agreed that a simplification and improvement of the definition of the apparent surface is a priority subject for the Stage 2 / Step 2.</p> <p>The Chairman thanked The Netherlands and SAE for the interesting presentations, observing that the determination of the “apparent surface” is in dire need of simplification. He invited all to see if there is any more information, or scientific research, available on the topic.</p> <ul style="list-style-type: none"> - Grouping and prioritising of topics <p>Document SLR-52-03/Rev.3 is the latest version of the collection of inputs, reflecting all the modifications and prioritisation of topics to be mentioned at GRE-86, as agreed during SLR-54. SLR recognised that harmonisation can only be achieved if the USA join the work.</p> <p>The Chairman stressed the importance for CPs to contribute in the discussion and invited all the participants to come prepared for the next meeting in order to have a fruitful debate. At the next session, the “filtering phase” will continue with the target of grouping/merging the subjects as appropriate and prioritising the inputs by assigning different colours.</p>	<p>SLR-54-08 SLR-54-14</p> <p>SLR-52-03/Rev.2</p>
11.	<p>“CPs moment”</p> <p>The Secretary provided a summary of the main results from this meeting with a focus on the Stage 2 / Step 2, the extension of the SLR mandate, the</p>	

	<p>headlamp levelling and the work to draft an appropriate “sunset provision” to be inserted in the installation Regulations.</p> <p>The Chairman expressed his satisfaction that concerning the topic of “device transition” a way forward was found. Furthermore, he called upon all the CPs to contribute actively in the Stage 2 / Step 2 discussions.</p>	
12.	<p>Proposal for clarification of Regulations 148-149-150</p> <p>SLR took note of additional corrections to Reg. 148.01 (doc. SLR-54-05) and Reg. 149.01 (doc. SLR-54-04) and agreed to proceed as follows:</p> <ul style="list-style-type: none"> - The contents of an improved version of SLR-54-04 (available as doc. SLR-54-04/Rev.1) will be merged in SLR-53-11/Rev.1 - A reference to SLR-54-05 will be added to SLR-53-11/Rev.1 with a note to clarify that this proposal shall not lead to a new series of amendments. GTB offered to consider this matter and to provide feedback in a future SLR session. 	<p>SLR-53-11/Rev.1 SLR-54-04 SLR-54-05</p>
13.	<p>SLR mailing list</p> <p>The Secretary reported that after 54 meetings it considered appropriate to review the SLR mailing list, also taking into account the new SLR focus on Stage 2 / Step 2.</p> <p>SLR agreed to “refresh” the mailing list to reflect the actual participation in the work, removing those who do not participate/contribute and inserting new people willing to join the IWG. It was observed that all documents are publicly available and regular status reports are provided at each GRE session, with an invitation to all CPs to participate, therefore transparency will always be guaranteed.</p> <p>The Secretary will update the SLR mailing list to reflect the modifications agreed at the SLR-54 and the new requests received by email.</p>	
14.	<p>Any Other Business</p> <ul style="list-style-type: none"> - Questions regarding the 1958 Agreement <p>Mr. Bauckhage briefly introduced doc. SLR-54-15 to raise some open questions concerning the Art. 3 of the 1958 Agreement. The Secretary will contact the GRE Secretariat for an informal advice and will report at the next SLR session.</p>	<p>SLR-54-15</p>
15.	<p>Next meeting(s)</p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> ➤ 55th SLR meeting – Hybrid in Brussels (BE), on 18-20 May 2022 * ➤ 56th SLR meeting – Hybrid in Brussels (BE), on 27-29 June 2022 <p><i>* Note: SLR-55 will start on 18 May at 14:00 hrs and will be preceded, from 11:00 to 13:00 hrs, by a special SLR session on “headlamp levelling”. Due to COVID restrictions, the maximum capacity of the meeting room at CLEPA will be limited to 10 people.</i></p>	
16.	<p>Closure</p> <p>The Chairman thanked all the participants for their fruitful contribution and closed the meeting.</p>	

**Participation at 54th SLR meeting
WebEx, 23-25 March 2022**

23 March 2022	24 March 2022	25 March 2022
Mr. Derwin ROVERS (NL, SLR Chair)	Mr. Derwin ROVERS (NL, SLR Chair)	Mr. Derwin ROVERS (NL, SLR Chair)
Mr. Davide PUGLISI (GTB, SLR Secr)	Mr. Aleksander LAZAREVIC (EC, SLR Vice-Chair)	Mr. Aleksander LAZAREVIC (EC, SLR Vice-Chair)
Mr. James ABRAHAM (OICA)	Mr. Davide PUGLISI (GTB, SLR Secr)	Mr. Davide PUGLISI (GTB, SLR Secr)
Mr. Phil BAILEY (UK)	Mr. James ABRAHAM (OICA)	Mr. James ABRAHAM (OICA)
Ms. Silke BARTON (CLEPA)	Ms. Elena ANSALONI (IT)	Ms. Elena ANSALONI (IT)
Mr. Thomas BAUCKHAGE (CLEPA)	Mr. Phil BAILEY (UK)	Mr. Phil BAILEY (UK)
Ms. Aurélie BERTHEL (OICA)	Ms. Silke BARTON (CLEPA)	Ms. Silke BARTON (CLEPA)
Mr. Jürgen EWALD (CLEPA)	Mr. Thomas BAUCKHAGE (CLEPA)	Mr. Thomas BAUCKHAGE (CLEPA)
Mr. Sebastian FAHR (OICA)	Ms. Aurélie BERTHEL (OICA)	Ms. Aurélie BERTHEL (OICA)
Mr. Marc FISCHER (DE)	Mr. Jürgen EWALD (CLEPA)	Mr. Jürgen EWALD (CLEPA)
Mr. Valter GENONE (GTB)	Mr. Sebastian FAHR (OICA)	Mr. Marc FISCHER (DE)
Mr. Marcin GORZKOWSKI (SAE)	Mr. Marc FISCHER (DE)	Ms. Kiyomi FUJIMOTO (JP)
Mr. Mark GRAINGER (OICA)	Mr. Valter GENONE (GTB)	Mr. Manabu FUSHIMI (JP)
Mr. Beny GRIGORESCU (GTB)	Mr. Marcin GORZKOWSKI (SAE)	Mr. Valter GENONE (GTB)
Mr. Frédéric HAY (CLEPA)	Mr. Mark GRAINGER (OICA)	Mr. Marcin GORZKOWSKI (SAE)
Mr. Pere HERNANDEZ (IMMA)	Mr. Beny GRIGORESCU (GTB)	Mr. Mark GRAINGER (OICA)
Mr. Dieter KOOß (DE)	Mr. Frédéric HAY (CLEPA)	Mr. Beny GRIGORESCU (GTB)
Mr. Takahiro KOYAMA (JP)	Mr. Pere HERNANDEZ (IMMA)	Mr. Frédéric HAY (CLEPA)
Mr. Gert LANGHAMMER (CLEPA)	Mr. Dieter KOOß (DE)	Mr. Pere HERNANDEZ (IMMA)
Mr. Deepesh MUTKE (IMMA)	Mr. Takahiro KOYAMA (JP)	Mr. Timo KÄRKKÄINEN (FI)
Mr. Kota NAKAHIRA (IMMA)	Mr. Gert LANGHAMMER (CLEPA)	Mr. Dieter KOOß (DE)
Mr. Michael PERNKOPF (CLEPA)	Mr. Michael LARSEN (SAE)	Mr. Takahiro KOYAMA (JP)
Mr. Philipp PLATHNER (IEC)	Mr. Deepesh MUTKE (IMMA)	Mr. Rainer KRAUTSCHEID (DE)
Mr. Jean-Marc PRIGENT (OICA)	Mr. Kota NAKAHIRA (IMMA)	Mr. Gert LANGHAMMER (CLEPA)
Mr. Alfonso ROMERO (CLEPA)	Mr. Michael PERNKOPF (CLEPA)	Mr. Deepesh MUTKE (IMMA)
Mr. Lukas SCHWENKSCHUSTER (GTB)	Mr. Philipp PLATHNER (IEC)	Mr. Kota NAKAHIRA (IMMA)
Mr. Tomasz TARGOSINSKI (PL)	Mr. Jean-Marc PRIGENT (OICA)	Mr. Michael PERNKOPF (CLEPA)
Mr. Wilfried VAN LAARHOVEN (NL)	Mr. Walter SCHLAGER (IEC)	Mr. Philipp PLATHNER (IEC)
Mr. John VEASEY (OICA)	Mr. Christophe TISSIER (CEMA)	Mr. Jean-Marc PRIGENT (OICA)
	Mr. Wilfried VAN LAARHOVEN (NL)	Mr. Walter SCHLAGER (IEC)
	Mr. John VEASEY (OICA)	Mr. Seiya TATSUNO (JP)
		Mr. Christophe TISSIER (CEMA)
		Mr. John VEASEY (OICA)