

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

### **57<sup>th</sup> meeting**

Karlsruhe (DE), 15-16 September 2022

## **REPORT**

		<b>Documents</b>
<b>1.</b>	<p><b>Welcome and opening remarks</b></p> <p>The Chairman opened the meeting by welcoming all the participants.</p>	
<b>2.</b>	<p><b>Introduction of participants and organisations</b></p> <p>A list of all participants is available in Annex 1 to this Report.</p>	
<b>3.</b>	<p><b>Adoption of the agenda</b></p> <p>The agenda was adopted with the insertion of new documents. A revised agenda, reflecting the agreed modifications, was circulated as document SLR-57-01/Rev.1.</p>	<b>SLR-57-01</b>
<b>4.</b>	<p><b>Approval of the reports of the previous sessions</b></p> <ul style="list-style-type: none"> <li>- Report 49<sup>th</sup> meeting - WebEx, 20-22 July 2021</li> <li>- Report 50<sup>th</sup> meeting - WebEx, 9-10 September 2021</li> <li>- Report 51<sup>st</sup> meeting - WebEx, 6-8 October 2021</li> <li>- Report 52<sup>nd</sup> meeting - WebEx, 15-17 December 2021</li> <li>- Report 53<sup>rd</sup> meeting - WebEx, 19-21 January 2022</li> <li>- Report 54<sup>th</sup> meeting - WebEx, 23-25 March 2022</li> <li>- Report 55<sup>th</sup> meeting - WebEx, 18-20 May 2022</li> <li>- Report 56<sup>th</sup> meeting - Brussels (BE), 27-29 June 2022</li> </ul> <p>SLR approved the reports from the 49<sup>th</sup> to the 52<sup>nd</sup> sessions without modifications. The approval of the remaining SLR reports was postponed to the next session.</p>	<p><b>SLR-49-25</b>  <b>SLR-50-08</b>  <b>SLR-51-20</b>  <b>SLR-52-13</b>  <b>SLR-53-13</b>  <b>SLR-54-16</b>  <b>SLR-55-07</b>  <b>SLR-56-04</b></p>
<b>5.</b>	<p><b>Proposals for clarification and correction meant for the 01 series of amendments to UN Regulations Nos. 148, 149 and 150</b></p> <ul style="list-style-type: none"> <li>- Proposal to correct Reg. 148-01</li> <li>- Proposal to correct Reg. 48</li> </ul> <p>Document SLR-53-11/Rev.5 is the latest collection of proposals to correct and to clarify provisions in the device Regulations, reflecting the status as at the end of SLR-57 (including SLR-57-06 and the additional corrections to Annex 5 of R150). This is a living document that will be used to further collect non-urgent corrections during the next SLR sessions until ready for GRE (presumably, not before Fall 2023).</p>	<p><b>SLR-53-11/Rev.4</b></p> <p><b>SLR-57-06</b>  <b>SLR-57-07</b></p>

	<p>The corrections to R48 proposed in SLR-57-07/Rev.1 will be taken into account by the “Homework Team R48” as part of the overall review of Reg. 48.</p>	
6.	<p><b>Device transition</b></p> <ul style="list-style-type: none"> <li>- SLR submission to GRE-87 (<i>see ECE/TRANS/WP.29/GRE/86, para 9</i>)</li> <li>- Proposal for Reg. 48 (<i>OICA update of SLR-55-05/Rev.2</i>)</li> <li>- Proposal for Reg. 53 (<i>input from IMMA based on SLR-55-05/Rev.2</i>)</li> <li>- Proposal for Reg. 74 (<i>input from IMMA based on SLR-55-05/Rev.2</i>)</li> <li>- Proposal for Reg. 86 (<i>input from CEMA based on SLR-55-05/Rev.2</i>)</li> </ul> <p>The latest version of the proposal for Reg. 48, reflecting all the modifications and improvements agreed during the meeting, is available as document SLR-58-02. A file with all comments in track-change resulting from SLR-57 (plus draft additional justifications from OICA) is available, for information purposes, as SLR-57-02/Rev.1.</p> <p>SLR also reviewed and improved the proposals for “device transitions” for the other installation Regulations (i.e. R53, R74 and R86). The latest versions of these proposals, reflecting all the modifications agreed during the meeting, are available as follows:</p> <ul style="list-style-type: none"> <li>- SLR-57-04/Rev.1 (Reg. 53)</li> <li>- SLR-57-05 (Reg. 74)</li> </ul> <p>The “Homework Team for R53/R74” shall add the justification and submit revised proposals to SLR-58 for final check.</p> <ul style="list-style-type: none"> <li>- SLR-57-08/Rev.1 (Reg. 86)</li> </ul> <p>The “Homework Team for R86” shall add the justification and submit revised proposals to SLR-58 for final check.</p> <p>After a final proof-reading of the four proposals and their justifications at SLR-58, they will be sent to GRE-87 as informal documents.</p> <p><i>Note: beyond the specific proposal for “device transition”, SLR agreed on the need to carry out a more general editorial review of Reg. 48 and also to align the terminology among the installation and device regulations. For instance: usage of “driving-beam” and “passing-beam” only (except in their definition), para. above/below, UN Regulation, Table &amp; Figure numbers, etc. This editorial exercise shall involve all the “Homework Teams”.</i></p>	<p><b>SLR-57-02</b>  <b>SLR-57-04</b>  <b>SLR-57-05</b>  <b>SLR-57-08</b></p>
7.	<p><b>Stage 2 / Step 2 - Specific items or general topics for consideration</b></p> <ul style="list-style-type: none"> <li>- Grouping and prioritising of topics</li> <li>- Input on specific items</li> </ul> <p>Document SLR-52-03/Rev.6 is the latest collection of input from CPs and NGOs, reflecting the status as at the end of SLR-57.</p> <p>Mr. van Laarhoven introduced SLR-57-03, containing some key questions and considerations about the apparent surface, to be used by SLR as input from the experts from The Netherlands. He pointed out that SLR should perhaps primarily focus on the edges of a function rather than its surface area.</p> <p>The input from the Netherlands was well received by Dr. Kooss who observed that today we may have results that do not reflect what we see.</p>	<p><b>SLR-52-03/Rev.5</b>  <b>SLR-57-03</b></p>

	<p>Mr. Genone reported that in the US the measurement is intended to find the area while we need to identify the edges. He added that tolerances shall be taken into account in view of today's accuracy of measurement.</p> <p>Mr. Grainger appreciated this concept although it may be a big challenge to design a lamp that meets such an accurate measurement. He added that the Dutch input seems to be focussed only on signalling functions and added that it appears more complex for filament lamps. Moreover, he observed that test houses will have to be equipped with such cameras and this shall also be considered.</p> <p>Mr. Rovers pointed out that today's geometric method is everything but simple and something has to be done in order to avoid different results.</p> <p>Mr. Langhammer offered to share, if possible, the results of an experiment conducted some time ago addressing the apparent surface.</p> <p>The experts from The Netherlands were invited to draft an update for future consideration, based on SLR-57-03, taking into account the discussions at SLR-57.</p> <p>All SLR members (both CPs and NGOs) were requested to study doc. SLR-52-03/Rev.6 and to provide input on the specific items. The discussion will continue at SLR-58 on the basis of the input from SLR members and, in particular, from those CPs/NGOs who proposed the various subjects.</p>	
8.	<p><b>UI and the “Summary document”</b></p> <ul style="list-style-type: none"> <li>- SLR submission to GRE87 (<i>see ECE/TRANS/WP.29/GRE/86, par. 10</i>)</li> <li>- SLR proposals to amend Regs. 148, 149 and 150</li> <li>- CITA proposal to amend Regs. 148, 149 and 150</li> <li>- DETA “Task Force session on UI” (<i>for information only</i>)</li> <li>- SLR participation in IWG-DETA “Task Force session on UI”</li> </ul> <p>The Chairman recalled that documents GRE/2022/10, .../11 and .../12 were submitted to GRE-87 to introduce the usage of a “summary document” to support the Unique Identifier. He also reported that CITA submitted a proposal to amend Regs. 148, 149 and 150 (GRE/2022/13) and invited SLR members to read documents DETA-45-04 and 05 for information.</p> <p>There was agreement on the need to ensure at least one SLR participant at each session of the DETA “Task Force on UI”.</p> <p>Mr. Bauckhage showed a brief presentation (circulated after the session as doc. SLR-58-01) with the aim to clearly show the impact, but without expressing a judgment, that the CITA proposal (doc. GRE/2022/13) would have on the usage of the UI.</p> <p>SLR members were invited to study the document SLR-58-01, in order to have a fruitful discussion at SLR-58.</p>	<p><b>GRE/2022/10, .../11, .../12 GRE/2022/13 DETA-45-04, -05</b></p>
9.	<p><b>Headlamp levelling</b></p> <ul style="list-style-type: none"> <li>- Outcome workshop &amp; SLR special session; Karlsruhe, 13-14 Sep 2022</li> <li>- Next steps (<i>see ECE/TRANS/WP.29/GRE/86, para 15</i>)</li> </ul> <p>The Chairman provided a brief summary of the recent SLR “Hands on” workshop on 13 September, followed by a special SLR session on</p>	<p><b>SLR-HL-33</b></p>

	<p>14 September in Karlsruhe. He reported that the discussion focused on two points: 1) the “initial aiming”; 2) the “aiming diagram” and its possible improvements.</p> <p>The only alternative to the SLR proposal (doc. GRE/2020/8/Rev.2) was received by Poland as document SLR-HL-28/Rev.2. No support was expressed by SLR for the “initial aiming” as proposed by Poland.</p> <p>No consensus could be reached by SLR for the “aiming diagram”: the existing SLR proposal seems to be still the best compromise, although it could not be endorsed by all CPs. Some CPs could be open to consider alternatives to improve the “left side” of the diagram (addressing the glare) but without any concrete alternative proposal it was not possible to make further progress on the “aiming diagram”.</p> <p>SLR concluded that some clear guidance from GRE will be necessary in order to make progress on this subject and get out of this stalemate.</p> <p>No further SLR special sessions on “Headlamp levelling” were planned.</p>	
10.	<p><b>“CPs moment”</b></p> <p>The Secretary provided a summary of the main results from this meeting with a focus on the Stage 2 / Step 2, the UI and the “Summary document”, the headlamp levelling and the device transition.</p> <p>The Chairman recalled the importance for all the CPs to contribute actively in the Stage 2 / Step 2 discussions.</p> <p>Mr. Kärkkäinen (GRE chairman) agreed that Stage 2 / Step 2 should become the main subject for SLR from now on. He acknowledged the time and efforts invested by SLR on headlamp levelling and expressed his gratitude for this. However, he was somewhat disappointed with the inconclusive result so far. He agreed that this subject needs to be discussed in GRE to find a solution in order to conclude the long-standing discussions on headlamp levelling.</p>	
11.	<p><b>Any Other Business</b></p> <p>No other business was discussed.</p>	
12.	<p><b>Next meeting(s)</b></p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> <li>➤ <b>58<sup>th</sup> SLR meeting</b> - Hybrid in Brussels (BE), on 12-14 October 2022</li> <li>➤ <b>59<sup>th</sup> SLR meeting</b> - Hybrid in Brussels (BE) on 14-16 December 2022</li> </ul>	
13.	<p><b>Closure</b></p> <p>The Chairman thanked all the participants for their fruitful contributions - to both the workshop and the meeting - and, before closing the meeting, he expressed a special thanks to Dr. Kooss and to LTIK for hosting this session and the “hands-on” workshop.</p>	

**Participation at 57<sup>th</sup> SLR meeting  
Karlsruhe + WebEx, 15-16 September 2022**

<b>15 September 2022</b>	<b>16 September 2022</b>
Mr. Derwin ROVERS (NL, SLR Chairman) *	Mr. Derwin ROVERS (NL, SLR Chairman) *
Mr. Davide PUGLISI (GTB, SLR Secretary) *	Mr. Davide PUGLISI (GTB, SLR Secretary) *
Ms. Silke BARTON (CLEPA)	Ms. Silke BARTON (CLEPA)
Mr. Thomas BAUCKHAGE (CLEPA) *	Mr. Thomas BAUCKHAGE (CLEPA) *
Ms. Aurélie BERTHEL (OICA) *	Ms. Aurélie BERTHEL (OICA) *
Mr. Eric BLUSSEAU (CLEPA) *	Mr. Eric BLUSSEAU (CLEPA) *
Mr. Jürgen EWALD (CLEPA) *	Mr. Jürgen EWALD (CLEPA) *
Mr. Sebastian FAHR (OICA)	Mr. Sebastian FAHR (OICA)
Mr. Marc FISCHER (DE) *	Mr. Marc FISCHER (DE) *
Mr. Valter GENONE (GTB) *	Mr. Manabu FUSHIMI (JP) – <i>CPs moment</i>
Mr. Marcin GORZKOWSKI (SAE)	Ms. Kiyomi FUJIMOTO (JP) – <i>CPs moment</i>
Mr. Mark GRAINGER (OICA) *	Mr. Valter GENONE (GTB) *
Mr. Beny GRIGORESCU (GTB)	Mr. Mark GRAINGER (OICA) *
Mr. Frédéric HAY (CLEPA) *	Mr. Beny GRIGORESCU (GTB)
Mr. Pere HERNANDEZ (IMMA) *	Mr. Frédéric HAY (CLEPA) *
Mr. Takahiro KOHYAMA (JP) *	Mr. Pere HERNANDEZ (IMMA) *
Mr. Dieter KOOSS (DE) *	Mr. Timo KÄRKKÄINEN (FI) – <i>CPs moment</i>
Mr. Gert LANGHAMMER (CLEPA) *	Mr. Takahiro KOHYAMA (JP) *
Mrs. Ana-Isabel MUNOZ (CLEPA) *	Mr. Dieter KOOSS (DE) *
Mr. Kota NAKAHIRA (IMMA)	Mr. Gert LANGHAMMER (CLEPA) *
Mr. Michael PERNKOPF (CLEPA)	Mrs. Ana-Isabel MUNOZ (CLEPA) *
Mr. Philipp PLATHNER (IEC)	Mr. Kota NAKAHIRA (IMMA)
Mr. Jean Marc PRIGENT (OICA)	Mr. Michael PERNKOPF (CLEPA)
Mr. Alfonso ROMERO (CLEPA)	Mr. Philipp PLATHNER (IEC)
Mr. Walter SCHLAGER (IEC)	Mr. Jean Marc PRIGENT (OICA)
Mr. Lukas SCHWENKSCHUSTER (GTB) *	Mr. Alfonso ROMERO (CLEPA)
Mr. Christophe TISSIER (CEMA)	Mr. Walter SCHLAGER (IEC)
	Mr. Lukas SCHWENKSCHUSTER (GTB) *
	Mr. Tomasz TARGOSINSKI (PL) – <i>CPs moment</i>
	Mr. Christophe TISSIER (CEMA)
	Mr. Wilfried VAN LAARHOVEN (NL)

Note: the asterisk “\*” indicates those who have participated in person.