

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

36th meeting

8-10 January 2020

CLEPA Headquarters
Cours Saint-Michel 30g, Brussels

REPORT

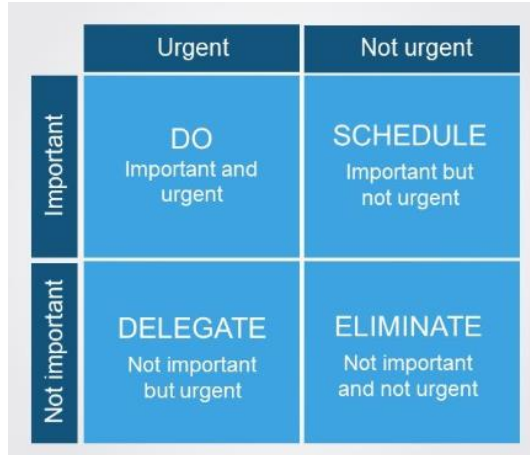
		Documents
	Welcome and opening remarks Mr. Loccufier opened the meeting welcoming all the participants and wishing everyone a happy new year and good health.	
1.	He also informs SLR that for the meetings this year we need to discuss about how we run the meetings; for instance to set some targets before the meeting of items/documents that are in any case intended to be discussed and/or finalized during that particular meeting.	
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-36-06/Rev.1. In order to facilitate the participation of Japanese experts via WebEx, the SLR confirmed to allocate most of the morning session of the 2 nd day of meeting (i.e. 9 January 2020) to item 10 “Headlamp levelling”.	SLR-36-06
4.	Approval of the reports of the previous sessions - Report 33 rd meeting - Brussels, 9-11 October 2019 - Report 34 th meeting - Brussels, 4-6 November 2019 - Report 35 th meeting - Brussels, 11-13 December 2019 The Report on the 33 rd meeting (doc. SLR-33-17) was approved by SLR. The approval of the two most recent reports was postponed to the next session.	SLR-33-17 SLR-34-12 SLR-35-22

Consideration of GRE priorities for discussion

SLR-34-06/Rev.3

The SLR discussed what could be the most appropriate logic to assign the priority to the GRE list of current and future work items, as indicated in document SLR-34-06/Rev.3. It was also considered what would be the most suitable format to present the GRE priorities to WP.29.

The so called “Eisenhower Matrix” was considered as one of the possible tools to help prioritising the items by urgency and importance:



5.

The SLR agreed that, the GRE work items listed in doc. SLR-34-06/Rev.3 will be used by Mr. Loccufier and Mr. Rovers (GRE Chairs) to produce a priority table based on the format used in doc. GRSP-66-39/Rev.5. The SLR observed that this document was prepared by GRSP using the template provided by the Secretariat to the Chairs of GRs, following the AC.2 instructions given at the 179th WP.29 session (see ECE/TRANS/WP.29/1149, para 8.).

This document will be circulated within SLR for approval and then presented by Mr. Loccufier at the next AC.2 session in March 2020. This is a living document that will be regularly updated by GRE.

Corrections to the new UN Regulations (00 series)

SLR-35-01/Rev.1

- UN Regulation No. 148 / LSD

Mr. Puglisi informed that, as agreed at SLR-35, the part of SLR-35-01/Rev.1 concerning the 00 series will be sent, as formal document, to GRE-83 as Supplement to the 00 series of amendments.

- UN Regulation No. 149 / RID

SLR-36-04

6.

Mr. Langhammer introduced document SLR-36-04, explaining the inconsistencies and errors that have been identified in Tables 8 and 9 as well as in Annex 7. He pointed out that the proposal to rename “E_{max} R/L” in Table 8 as well as to change Annex 7, paragraph 1. d), are corrections of mistakes already contained in Regs. 98 and 123 that were copied to the current R149.

The SLR agreed to send SLR-36-04, as formal document to GRE-83 as Supplement to the 00 series of amendments. In order to keep the 00 series of R149 fully consistent with the provisions of the frozen Regulations, the SLR agreed to correct R98 and R123 as well.

Mr. Langhammer offered to prepare the amendments to correct R98 and R123 that SLR will send, as formal document, to GRE-83 as a Supplement to the penultimate series of amendments (i.e. the one before the freezing).

	<p>- UN Regulation No. 150 / RRD</p> <p>Mr. Puglisi informed that, as agreed at SLR-35, document SLR-35-10/Rev.1 will be sent, as formal document, to GRE-83 as Supplement to the 00 series of amendments.</p>	<p>SLR-35-10/Rev.1</p>
<p>7.</p>	<p>Stage 2 / Step 1 Simplification – SLR package for GRE-83</p> <p>Mr. Rovers reported that, after a recent “SLR-management” meeting involving the SLR chairman, the vice-chairman, the secretary and himself where the latest status of development of the Stage 2 proposals has been carefully reviewed, it was concluded that – despite the great efforts made by the SLR – the formal submission of the SLR package of proposals to GRE-83 will not be feasible. In particular he explained that the proposals for the 3 new UN Regulations are not mature enough for submission to GRE, especially R149, and the proposals for the installation Regulations have not yet been addressed.</p> <p>Mr. Rovers informed that, in view of the situation, the SLR should now target to send to GRE-83, in addition to the formal proposals to correct and clarify the Regulations (<i>see item 6 of this Report</i>):</p> <ul style="list-style-type: none"> - a formal proposal for headlamp levelling (<i>item 10 on the Agenda</i>) - informal proposals for the new simplified Regulations. <p>The formal submission of the complete SLR package will be postponed to the 84th GRE session.</p> <p>The SLR acknowledged that extra time will be necessary to complete the work, nevertheless it was agreed - for the time being - not to ask GRE for an extension of time after 2022 (see ECE/TRANS/WP.29/GRE/80, Annex II).</p> <p>- UN Regulation No. 48</p> <p>Mr. Goldbach informed that OICA will organise a telco involving the homework team leaders (Mr. Bauckhage, Mr. Langhammer, Mr. Ewald), as well as representatives from IMMA, CEMA and GTB, to start discussing the amendments to the installation Regulations associated to the simplification of device Regulations. OICA will report to SLR-37 the initial outcome of discussion.</p> <p>- UN Regulation No. 148 / LSD</p> <p>Mr. Bauckhage introduced document SLR-36-08 explaining that all the agreed proposals for amendments have been included in this document, except for light source proposal which was not yet implemented but noted in comments. All changes are marked with different colours on the first page and in the corresponding paragraph of the document.</p> <p>Mr. Plathner provided a brief update on the development of the light source proposal and, in particular, on work to revise Par. 4.7. “Test conditions”.</p> <p>The SLR improved the text as reflected in document SLR-36-08/Rev.1. This document represents the latest draft consolidated text of R148, reflecting all the latest modifications, except for the amendments concerning the light sources which have not yet been implemented (see SLR-35-05/Rev.1).</p>	<p>SLR-36-08</p>

GTB offered to work on R148 (particularly to reconsider the whole D-lamp subject, review Par. 4.7. and finalise Annex 8) and to provide a proposal for consideration at SLR-37. The discussion will resume at the next meeting with the goal to adopt a complete updated draft R148 and send it to GRE-83 as an informal document.

- UN Regulation No. 149 / RID

The SLR agreed to use SLR-36-05 (based on the latest draft consolidated document SLR-35-06/Rev.1) as baseline document to review and improve the draft updated text of Reg. 149, including the proposed amendment concerning the light sources.

Mr. Schlager explained the modifications introduced in paragraphs 4.5.2. and 4.5.3. as well as in Annexes 9 and 15 regarding the light sources. A summary of the proposed modifications can be found in the first page of the proposal.

The participants had an extensive debate on paragraph 4.5.2.4. and its footnote #7. The group considered whether the footnote should be deleted or amended and if a link to UN Regulation No. 10 would be appropriate. No conclusion could be reached on this point and the discussion will resume at SLR-37.

Mr. Schlager informed that Par. 4.5.3. was amended to reflect the proposal in document SLR-35-04/Rev.1. Regarding the new Table 4, Mr. Targosinski reiterated his position against the alternative box requirements for the minimum values of the luminous flux of light sources. The SLR noted the position of the Polish delegate, nevertheless it was observed that all the other participants expressed general support for the new proposed text, therefore it was agreed to keep the text as proposed in SLR-36-05.

Mr. Langhammer volunteered to prepare for SLR-37 a proposal to review all the photometric tables in Par. 6 “Conformity of production”.

The latest draft consolidated text of R149 was circulated as SLR-36-05/Rev.3. This document included the input from SLR-35-07/Rev.1 (Half of sum) and SLR-35-08/Rev.1 (Revision of Par. 4) and several other improvements agreed at SLR-36 including the latest draft amendments concerning the light sources. The proposed Annex 15 was moved to replace the old Annex 10, which has been deleted because never referenced in the text.

The discussion on R149 will resume at SLR-37 with the goal to adopt a complete updated draft for submission to GRE-83 as an informal document.

- UN Regulation No. 150 / RRD

Mr. Ewald introduced document SLR-36-10 pointing out the numerous improvements made throughout the text. The editable Figures of Annexes 4 and 24 were made available as SLR-36-11.

The SLR agreed on a number of modifications and improvements such as the removal of the “blue wool” in Annex 22 and the removal of the “104R” from Fig. A24-III and the “27R” from Fig. A24-V. Table 1 has been amended during the meeting to reflect these changes: the column “Additional symbol” was deleted and a new Advance Warning Triangle identified as “Type 2” was added. It was furthermore agreed to simplify Table 1 by reducing the number of minimum sizes of “a”: the value “4 mm” should become “5 mm” and the value “12 mm” should become “8 mm”.

SLR-36-05

SLR-35-04/Rev.1,

SLR-35-07/Rev.1,

SLR-35-08/Rev.1

SLR-36-10

SLR-36-11

	<p>The latest draft consolidated text of R149 was circulated as SLR-36-10/Rev.1. The discussion on R150 will resume at the SLR-37 on the basis of an updated text, provided by Mr. Ewald, that will reflect all the above modifications as well as some general editorial improvement (characters size, space, etc.). The goal will be to adopt a complete updated draft for submission to GRE-83 as an informal document.</p>	
8.	<p>Consideration of amendments to Regs. Nos. 98, 112, 113</p> <p>Mr. Goldbach, on the basis of document SLR-36-03, commented that the paragraph in UN Regulations Nos. 98, 112 and 113 stating that “<i>Instead of requirements of this Regulation, headlamps may conform with requirements of the latest version of UN Regulation No. [149] as it relates to headlamps...</i>” might need to be amended once the 01, and subsequent, series of amendments to R149 will be in force in order to keep the conformity also with the original version of R149.</p> <p>The SLR observed that, assuming the adoption of the 01 series of amendments to R149 at the March 2021 WP.29 session, its entry into force will almost coincide with the end of the 24 months of Transitional Provisions for the frozen Regulations (i.e. 15 October 2021). A minor amendment to UN Regulations Nos. 98, 112 and 113 might therefore be necessary.</p> <p>Mr. Goldbach will contact Mr. Gorzkowski (author of the original amendments to R98, R112 and R113) to consider whether the text would need to be amended and how. For the time being the item will be off the agenda.</p>	SLR-36-03
9.	<p>Consequences, follow-up after light sources simplification</p> <p>Mr. Schlager briefly introduced document SLR-17-03 drawing the attention on the electronic light source control gear. Mr. Hernandez informed that IMMA will check if the 6V can be removed. This item will stay on the agenda for the next meeting, for final decision.</p>	SLR-17-03
10.	<p>Headlamp levelling</p> <ul style="list-style-type: none"> - Final review of revised proposal after ad-hoc meeting in Bonn on 28 November 2019 - Comparison of “boxes” (Polish vs. “extended red box”) - Extract of Polish research on driver awareness of manual levelling device <p>The SLR resumed the discussion on the revised proposal (doc. SLR-35-16), resulting from the ad-hoc meeting in Bonn on 28 November 2019.</p> <p>The text of paragraph 6.2.6.1. (Vertical inclination) has been improved and clarified. The blue line at -0,5%, representing the upper limit for the initial aim, was kept to avoid that vehicles after PTI are aimed above the cut-off.</p> <p>Mr. Targosinski pointed out that -0,5% should be the upper limit for cut-off (i.e. not only for initial aiming but for the whole range) because of tolerances and inaccuracies. Mr. Blomqvist commented that limiting to -0,5% would create difficulties for trucks because, during PTI, they are checked unloaded and this makes a big difference compared with cars.</p>	<p>SLR-35-16</p> <p>SLR-36-01/Corr.1</p> <p>SLR-36-02</p>

Japan expressed support for the diagram as proposed in document SLR-35-16. France shared the same opinion and suggested not to add extra text as the diagram was clear.

The SLR adopted by majority (Poland not in favour) the diagram proposed in document SLR-35-16. It was furthermore agreed to keep for clarity the wording in the new Par. 6.2.6.1.1. (Initial downward inclination).

Regarding the manual option for levelling device (Par. 6.2.6.2.2.) Mr. Blomqvist informed that, in case of trucks, it would be difficult to guarantee a good performance with auto levelling therefore, he recommended to keep manual levelling for trucks. Mr. Fahr shared the same comment.

It was also observed that in cars the average drivers seldomly use the manual levelling whereas, in the case of trucks, the drivers are professionals who have a much better knowledge of their vehicles.

The SLR was of the opinion that the paragraph should be deleted. However, taking into account the above comments, as well as the observations made by the French delegate at SLR-35 (*see SLR-35-22, item 9*), it was decided to keep the contents of Par. 6.2.6.2.2. in square brackets, but marked with strikethrough, to allow OICA additional time to produce an alternative proposal for GRE-83 to maintain the manual levelling option under specific conditions (e.g. better HMI, better communication to the driver, restrict to some vehicle categories, etc.).

Regarding the 2000 lm criterion for cleaning device (Par. 6.2.9. & 6.22.9.1.), the SLR agreed at its 35th session to maintain the existing criterion because, for the time being, there is no better alternative.

OICA will provide SLR with a revised proposal (based on SLR-35-16), reflecting all the agreed modifications. SLR will submit this revised proposal to GRE-83 as a formal document.

How to apply the “frozen” UN Regulations – Replies from CPs

SLR-35-20/Rev.2

SLR resumed the discussion on the series of amendment to be indicated in the approval number and in the approval marking, based on the slide summarising all the possible combinations produced at SLR-35 (doc. SLR-35-20/Rev.2). The representatives of The Netherlands, France, Japan and Germany have indicated their preference(s) as summarised below:

11.

Option	Number	Marking	Supported by
Old number + old marking	E4*06R01/29*123		JP: Favourite option
New number + new marking	E4*06R02/00*123		JP: Not possible DE: Under discussion
Old or new number + old marking	E4*06R01/29*123 E4*06R02/00*123		FR, JP: Not possible
New number + old or new marking	E4*06R02/00*123		FR, JP: Not possible
New number + old marking	E4*06R02/00*123		FR, JP: Not possible DE: Only option
Old number + old marking OR New number + new marking	E4*06R01/29*123 E4*06R02/00*123		FR, NL: Favourite option JP: Not possible

	In order to collect a broader indication from CPs, the SLR agreed to keep this item on the agenda and to invite again all CPs to indicate in the right column of document SLR-35-20/Rev.2 their preference(s) and provide additional comments, if any, in time for discussion at SLR-37.	
12.	<p>Revised proposal for mounting provisions for secondary driving beams in R53 and R74</p> <p>Mr. Hernandez provided a detailed introduction of document SLR-36-09, explaining that the proposal was aimed at reflecting in R53 and R74 the existing connection provisions for secondary driving beams, already laid down in UN Regulation No. 113.</p> <p>The participants recognised that the document was not urgent, therefore it will be reconsidered in the future.</p>	SLR-36-09
13.	<p>Deletion of side mounted Parking Lamps</p> <p>The SLR reiterated its position to delete the side mounted parking lamps, but not as a matter of urgency. In addition to Reg. 148, Reg. 48 (Par. 6.12.3.) and Reg. 86 (Par. 6.11.) will also need to be amended. This topic will be addressed during the telco to be organised by OICA (<i>see item 7 of this Report</i>).</p> <p>The item will be kept on the agenda for being addressed at a later SLR session.</p>	
14.	<p>Unique Identifier, status update</p> <p>Mr. Bauckhage introduced the latest version of the presentation on the Unique Identifier (doc. SLR-36-07).</p> <p>The SLR agreed a few improvements to this presentation that Mr. Bauckhage volunteered to implement for SLR-37. Mr. Loccufier will introduce this revised presentation at the AC.2 session in March 2020 to seek initial reactions. It will then be improved and presented at GRE-83 for endorsement, prior to its final presentation at the WP.29 session in June 2020.</p>	SLR-36-07
15.	<p>Updated list of potential candidate functions for GTRs</p> <p>For lack of time, this item was postponed to the next SLR session.</p>	SLR-31-02
16.	<p>Any Other Business</p> <p>There was no other business for discussion.</p>	
17.	<p>Next meeting(s)</p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> ➤ 37th SLR meeting – Brussels (BE) on 2-5 March 2020 ➤ 38th SLR meeting – Brussels (BE), on 27-29 May 2020 <p>Unless otherwise specified, the meetings in Brussels are held at the CLEPA Headquarters in Cours Saint-Michel 30g and WebEx connection is always provided. The starting time on the first day is 13:00 hrs and the finish time is 12:30 hrs on the last day of meeting.</p>	
18.	<p>Closure</p> <p>Mr. Loccufier thanked all the participants for their fruitful contribution and closed the meeting.</p>	

Annex 1 to SLR-36-12

Participation at 36th SLR meeting 8-10 January 2020

IN PERSON	WEBEX/TELEPHONE
Mr. Michel LOCCUFIER (BE, SLR Chair)	Mr. Lukas SCHWENKSCHUSTER (GTB)
Mr. Davide PUGLISI (GTB, SLR Secretary)	Mr. Tomasz TARGOSIŃSKI (PL) – 8, 9 Jan
Mr. Derwin ROVERS (NL)	Ms. Barbara MENSAH (OICA)
Mr. Beny GRIGORESCU (GTB)	Mr. Kousuke HORII (JP) – 9 Jan a.m. only
Mr. Thomas BAUCKHAGE (CLEPA)	Mr. Manabu FUSHIMI (JP) – 9 Jan a.m. only
Mr. Pere HERNANDEZ (IMMA)	Mr. Teruyoshi FUJITA (JP) – 9 Jan a.m. only
Mr. Jean-Marc PRIGENT (OICA)	Ms. Kiyomi FUJIMOTO (JP) – 9 Jan a.m. only
Mr. Takahiro KOYAMA (JP)	Mr. Philipp PLATHNER (IEC) – 9, 10 Jan only
Mr. Frédéric HAY (CLEPA)	Mr. Sebastian FAHR (OICA)
Mr. Gert LANGHAMMER (CLEPA)	Mr. Thomas GOLDBACH (OICA)
Ms. Aurélie BERTHEL (OICA)	Mr. Eric BLUSSEAU (GTB) – 9 Jan
Mr. Walter SCHLAGER (IEC)	Mr. Antoine PAMART (FR)
Mr. Jürgen EWALD (CLEPA)	Mr. Niklas BLOMQVIST (OICA) – 9 Jan
Mr. Christophe TISSIER (CEMA) – 9 Jan	

Apologies:

Mr. Aleksander LAZAREVIC (EC)
Mr. Rainer KRAUTSCHEID (DE)
Mr. Karl MANZ (DE)
Mr. Subrat DASH (IMMA)