

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

64th meeting

Brussels, 8-10 November 2023

REPORT

		Documents
1.	<p>Welcome and opening remarks</p> <p>The Chairman opened the meeting by welcoming all the participants to the 64th SLR session. He informed that, as agreed at the 89th GRE session, this SLR session has been preceded by an ad-hoc expert meeting on UN Regulation No. 86.</p>	
2.	<p>Introduction of participants and organisations</p> <p>A list of all participants is available in Annex 1 to this Report.</p>	
3.	<p>Adoption of the agenda</p> <p>The agenda was adopted with the insertion of new documents. A revised agenda, reflecting the agreed modifications, was circulated as document SLR-64-05/Rev.1.</p>	SLR-64-05
4.	<p>Approval of the reports of the previous sessions</p> <ul style="list-style-type: none"> - Report 61st meeting - Brussels (BE), 22-24 March 2023 - Report 62nd meeting - Brussels (BE), 26-28 June 2023 - Report 63rd meeting - Brussels (BE), 30 August - 1 September 2023 <p>The approval of the last SLR reports was postponed to the next session.</p>	SLR-61-10 SLR-62-16 SLR-63-10
5.	<p>Outcome from GRE-89 affecting SLR</p> <ul style="list-style-type: none"> - Ah-hoc expert meeting on Reg 86 - Extension of GRE/2023/13 to 03, 04, 05 series of R48 (<i>editorial task</i>) - Review the “Work plan and time schedule” in the ToR (Section V) <p>The participants took note of the results from the 89th GRE session affecting SLR and noted that the UI is now out of the SLR agenda.</p> <p>SLR may consider at the next (65th) session a proposal to extend the amendment in GRE/2023/13 also to the 03, 04 and 05 series of amendments to Reg.48. The proposal will then be sent to GRE-90.</p>	
6.	<p>Organisation and operational issues</p> <p>Meeting planning, Homework teams, Main deadlines</p> <p>The SLR Officers presented an overview of the general plan, and associated actions, to deliver the work on Stage 2 / Step 2 to GRE.</p>	SLR-64-10

	<p>SLR finally agreed to request an extension of the mandate of two years, instead of the initially considered one year. The final proposed target, until 2027, was considered ambitious but realistic, as long as SLR will avoid adding topics to its agenda that are not simplification-related. The request for extension will be communicated to GRE-90 in April 2024 as part of the SLR status report, plus a dedicated informal document. This item will be on the agenda for SLR-65.</p> <p>SLR-64-10 is the updated presentation about the organisation and operational issues, including details on timing and deadlines, reflecting all the modifications agreed at SLR-64.</p> <p>At the request of the Japanese host, in order to know in advance how many people are expected to participate in person at the SLR session planned in Tokyo in September 2024, all SLR members were invited to inform at SLR-65 whether they will have the possibility to participate in person. In case only a few people foresee to be able to join in person, SLR may have to postpone the meeting in Japan to a later date. A final decision will be taken at SLR-65 in December 2023.</p>	
7.	<p>Stage 2 / Step 2 - Specific items or general topics for consideration</p> <p><i>Note from SLR-63: all SLR members (both CPs and NGOs) were reminded to study doc. SLR-64-01 and to provide input on contents of the specific items marked in green colour.</i></p> <ul style="list-style-type: none"> - Grouping and prioritising of topics <p>SLR-64-01 is the latest consolidation of all topics for Stage 2 / Step 2, reflecting the status as at the end of SLR-63. All SLR members (both CPs and NGOs) were reminded, once again, to study this document and to provide input on contents of the specific items marked in green colour.</p>	SLR-64-01
7.1	<p>Stage 2 / Step 2 – Documents for information and reference</p> <ul style="list-style-type: none"> - Dutch presentation on Apparent surface - SAE International presentation on “Effective Projected Luminous Lens Area” (EPLLA) - Dutch input on specific items: Apparent surface - Appearance of signal lamps (experimental study in 2011) - Apparent surface; Measurement approach - Dutch discussion document on Apparent Surface - Apparent surface and angles of geometric visibility in R48 - General review of Reg. 48 	<p>SLR-54-08 SLR-54-14 SLR-57-03 SLR-58-05 SLR-61-05 SLR-61-03 SLR-62-14 SLR-61-02/Rev.3</p>
7.2	<p>Stage 2 / Step 2 – New input for SLR-64:</p> <ul style="list-style-type: none"> - Baseline document for Stage 2 / Step 2 work on Reg. 48 - Officers’ paper for R48 - Harmonise requirements (Prohibited if not allowed) - Officers’ paper for R48 - Harmonise structure of Par. 6 - Apparent surface - GTB input for consideration - SAE input for consideration - OICA input for consideration 	<p>SLR-63-01/Rev.1 SLR-64-02 SLR-64-03 SLR-64-09 SLR-64-08/Rev.1</p>

<ul style="list-style-type: none"> - IEC draft proposal, based on SLR-63-04, to address technological neutrality for light sources - Draft proposal from Germany, based on SLR-63-06, to improve the visibility of direction indicators - IMMA updated document, based on SLR-63-08, on potential improvements of the definitions in Regs. 53 and 74 - GTB proposal for R48; Revision/improvement of Par. 6.x.4. <p>An updated baseline document, based on the 09 series of amendments to Reg. 48 and reflecting the modifications agreed as at the end of SLR-64 will be prepared by the Secretary for SLR-65. This document will include the improvements in SLR-63-01/Rev.1 as well as the editorial restructuring of Par. 6 (doc. SLR-64-03) and the proposal to amend Par. 6.12.5. (doc. SLR-64-11, based on the old document SLR-57-07/Rev.1 from September 2022).</p> <p>Regarding the subject “apparent surface”, SLR is considering two parallel approaches: one more focussed on improving and clarifying the existing text/examples and another one considering new method(s).</p> <p>GTB will further work on an alternative method, based on the new approach presented in doc. SLR-64-09, and report back to a future SLR session.</p> <p>Netherlands may provide input for consideration at SLR-65. OICA may also provide some input for consideration.</p> <p>The expert from SAE presented document SLR-64-08/Rev.1, providing a comprehensive presentation on the EPPLA (Effective Projected Luminous Lens Area). He suggested to establish a clear definition of light-emitting-surface/luminous-area providing a light function and stressed the importance that this surface/area can be determined already at the design stage. SAE will provide to SLR-65 a justification (based on an UMTRI paper) for the minimum 50 cm² required EPLLA for a stop and rear turn signal lamps.</p> <p>On the subject “technological neutrality for light sources”, SLR considered and supported in principle the amendments proposed by IEC in document SLR-64-04. IEC will prepare for SLR-65 some pictures/examples. The discussion will resume at SLR-65.</p> <p>The expert from Germany introduced a draft proposal to improve the visibility of rear direction indicators (doc. SLR-64-06/Rev.1). In the discussion, several comments were made, as summarised below:</p> <ul style="list-style-type: none"> - The expert from The Netherlands observed that small areas are more subject to the effects of soil and damages. - The expert from OICA commented that it is not clear what problem this proposal is trying to fix and added that more data will be needed. 	<p>SLR-64-04</p> <p>SLR-64-06/Rev.1</p> <p>SLR-64-07</p>
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- The expert from France considered too restrictive to allow only direction indicators close to the extreme outer edge of the vehicle (Par. 6.5.4.1.) and suggested to work of the size, intensity and luminance instead.
- The expert from CLEPA recalled that flashing plays an important role to increase the visibility of direction indicators.
- The expert from GTB suggested to extend the proposal to the front direction indicators and use Cat. 3 and 4 instead of 2aa, 2ab, 2ba, 2bb.
- The expert from IMMA pointed out that riders are vulnerable so, from a safety point of view, it is positive to have bright direction indicators when installed close to the stop lamps. Furthermore, he indicated they would need more study.

Germany will prepare a revised proposal for the next SLR session, based on SLR-64-06/Rev.1 and taking into consideration the comments made at SLR-64. In particular a justification should be provided for the values proposed and it should be clearly explained the issue that it is proposed to be solved.

The expert from GTB introduced a proposal to improve Par. 6.x.4. (doc. **SLR-64-07**). SLR recommended to separate the discussion between Position Lamp and DRL since they have different purposes. The original purpose of the 600 mm distance between DRLs was to ensure there are two lamps and not to be confused with motorcycles.

The expert from France observed that, in case the 600 mm between DRLs is removed, it would be recommended to introduce the 400 mm rule to avoid the risk of having just one DRL in the centre of the vehicle.

GTB will investigate possibilities to improve Par. 6.x.4.1., as summarised in doc. SLR-64-07 and taking into account the discussion at SLR-64, and report back to a future SLR session. Concerning Par. 6.x.4.2. SLR suggested to work on a proposal based on the “Proposal #3” in slide 11.

The SLR Officers, as anticipated at the last SLR session, prepared a draft proposal for Reg. 48 (doc. **SLR-64-02**), suggesting to clarify that devices not allowed in the Regulation are prohibited (in line with Par. 5.17. of Reg. 53). The idea was generally supported.

SLR reviewed and improved the proposal, as reflected in document SLR-64-02/Rev.1, in order to consider those lamps which may be installed at national level or for any special purpose vehicles.

The expert from IMMA informed that the provisions in Par. 5.17. of R53 exist for decades (since the original version of R53 from 1983) and they have never been a problem.

The discussion will continue at the next session on the basis of document SLR-64-02/Rev.1. OICA will provide for SLR-65 a list of the remaining problems to be addressed.

	IMMA will prepare an updated document for SLR-65 about the potential improvements of the definitions in Regs. 53 and 74. The document will be based on SLR-63-08 and on the analysis shown at SLR-64.	
8.	Any Other Business No other business was discussed.	
9.	<p>Next meeting(s)</p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> ➤ 65th SLR meeting - Hybrid in Brussels, on 13-15 December 2023 * ➤ 66th SLR meeting - Hybrid in Brussels, on 7-9 February 2024 ➤ 67th SLR meeting - Hybrid in Brussels, on 3-5 April 2024 <p><i>* SLR-65 will be preceded, on 13 December 2023 from 11:00 to 13:00 hrs CET, by the 2nd ad-hoc expert meeting on Reg. 86</i></p> <p>Meeting plan for the rest of 2024 (to be confirmed at SLR-65):</p> <ul style="list-style-type: none"> ➤ 68th SLR meeting - Hybrid in Brussels, on [15-17 May] 2024 ➤ 69th SLR meeting - Hybrid in Brussels, on [24-26 July] 2024 ➤ 70th SLR meeting - Hybrid in [Tokyo], on [10-12 September] 2024 ➤ 71st SLR meeting - Hybrid in Brussels, on [11-13 December] 2024 	
10.	Closure The Chairman thanked all the participants for their fruitful contributions and closed the meeting.	

**Participation at 64th SLR meeting
Brussels + WebEx, 8-10 November 2023**

8 November 2023	9 November 2023	10 November 2023
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. Davide PUGLISI (GTB, SLR Secr) *	Mr. Davide PUGLISI (GTB, SLR Secr) *
Mr. James ABRAHAM (OICA)	Mr. James ABRAHAM (OICA)	Mr. James ABRAHAM (OICA)
Mrs. Silke BARTON (CLEPA)	Mrs. Elena ANSALONI (IT)	Mrs. Silke BARTON (CLEPA)
Mr. Ziya Metin COSKUN (OICA)	Mrs. Silke BARTON (CLEPA)	Mr. Thomas BAUCKHAGE (CLEPA)
Mr. Antoine DEPREE (FR) *	Mr. Thomas BAUCKHAGE (CLEPA)	Mr. Ziya Metin COSKUN (OICA)
Mr. Jürgen EWALD (CLEPA) *	Mr. Ziya Metin COSKUN (OICA)	Mr. Antoine DEPREE (FR) *
Mr. Sebastian FAHR (OICA) *	Mr. Antoine DEPREE (FR) *	Mr. Jürgen EWALD (CLEPA)
Mr. Marc FISCHER (DE)	Mr. Jürgen EWALD (CLEPA) *	Mr. Sebastian FAHR (OICA) *
Mr. Manabu FUSHIMI (JP)	Mr. Sebastian FAHR (OICA) *	Mr. Manabu FUSHIMI (JP)
Ms. Kiyomi FUJIMOTO (JP)	Mr. Marc FISCHER (DE)	Ms. Kiyomi FUJIMOTO (JP)
Mr. Valter GENONE (GTB)	Mr. Manabu FUSHIMI (JP)	Mr. Valter GENONE (GTB)
Mr. Marcin GORZKOWSKI (SAE)	Mr. Valter GENONE (GTB)	Mr. Mark GRAINGER (OICA)
Mr. Beny GRIGORESCU (GTB) *	Mr. Marcin GORZKOWSKI (SAE)	Mr. Beny GRIGORESCU (GTB) *
Mr. Frédéric HAY (CLEPA)	Mr. Mark GRAINGER (OICA)	Mr. Frédéric HAY (CLEPA)
Mr. Pere HERNANDEZ (IMMA) *	Mr. Beny GRIGORESCU (GTB) *	Mr. Pere HERNANDEZ (IMMA) *
Mr. Timo KÄRKKÄINEN (FI)	Mr. Frédéric HAY (CLEPA)	Mr. Timo KÄRKKÄINEN (FI)
Mr. Dieter KOOß (GTB)	Mr. Pere HERNANDEZ (IMMA) *	Mr. Dieter KOOß (GTB)
Mr. Takahiro KOHYAMA (JP)	Mr. Timo KÄRKKÄINEN (FI)	Mr. Takahiro KOHYAMA (JP)
Mr. Rainer KRAUTSCHEID (DE)	Mr. Dieter KOOß (GTB)	Mr. Rainer KRAUTSCHEID (DE)
Mr. Kota NAKAHIRA (IMMA)	Mr. Takahiro KOHYAMA (JP)	Mr. Paul-Henri MATHA (GTB)
Mr. Seiji NEMOTO (JP) *	Mr. Kota NAKAHIRA (IMMA)	Mr. Kota NAKAHIRA (IMMA)
Mr. Antoine PAMART (FR) *	Mr. Seiji NEMOTO (JP) *	Mr. Seiji NEMOTO (JP) *
Mr. Philipp PLATHNER (IEC)	Mr. Antoine PAMART (FR) *	Mr. Antoine PAMART (FR) *
Mr. Jean-Marc PRIGENT (OICA)	Mr. Philipp PLATHNER (IEC)	Mr. Philipp PLATHNER (IEC)
Mr. Seian SATO (JP)	Mr. Jean-Marc PRIGENT (OICA)	Mr. Seian SATO (JP)
Mr. Walter SCHLAGER (IEC) *	Mr. Seian SATO (JP)	Mr. Walter SCHLAGER (IEC) *
Mr. Lukas SCHWENKSCHUSTER (GTB)	Mr. Walter SCHLAGER (IEC) *	Mr. Lukas SCHWENKSCHUSTER (GTB)
Mrs. Sonia SUDRIE (OICA)	Mr. Lukas SCHWENKSCHUSTER (GTB)	Mrs. Sonia SUDRIE (OICA)
Mr. Takashi SUGIURA (IMMA)	Mrs. Sonia SUDRIE (OICA)	Mr. Takashi SUGIURA (IMMA)
	Mr. Takashi SUGIURA (IMMA)	Mr. Tomasz TARGOSINSKI (PL)
	Mr. Tomasz TARGOSINSKI (PL)	

Note: the asterisk "*" indicates those who have participated in person.