**UN ECE Regulation No. 116**

**GRSG Task Force** on **Key Definition.**

**Session #6,** web conference (Teams)

**DRAFT Minutes**

Schedule: 9 March 2021, from 13:00 to 15:00 CET (7:00-9:00 EST ; 20:00-22:00 JST)

1. Welcome, roll call of attendees

EC, Romain Ladret Piciorus (DG GROW),

SE, Bo Nilsson (STA),

UK, Donald Macdonald (DfT),

NL, Hans Lammers (RDW),

DE, Thomas Fuhrmann (BMVI), Rüdolf Gerlach (TÜV),

FR, Fabrice Herveleu (UTAC),

TK, Fatih Özçınar (Ministry of Industry and Technology of Turkey),

CN, Lijuan Cao, Weiqiang Peng (CATARC),

IR, Parisa Changiz (Iran National Standard Organization),

US, Jones Charmaine (NHTSA),

OICA, Alexandra Scholz, Benoît Moreau, Katja Jürss, Yves Lageot, Joachim Mueller, Daniel Knobloch, Andreas Hergen, Vuthy Phan, Andreas Perl (VDA), John Ellam, Rob Hare, Ansgar Pott, Martin Renner, Bjoern Link, Michael Kneissle, Dong Nguyen,

CLEPA, Alfonso Romero, Simone Falcioni, Herbert Froitzheim, Stefan Benz, Eric Leconte, Alberto Castagnini, Landi Renzo, Karl Brookes.

1. Adoption of the Agenda

Document: R116KEY-06-01

Adopted.

1. Adoption of Session #5 draft minutes

Document: R116Key-05-03\_Draft\_Minutes Dec. 10 & 16.

Adopted.

1. Proposal for informal document amending GRSG-121 working document

Documents: ECE-TRANS-WP.29-GRSG-2021-11

R116KEY-06-02 (OICA)

R116KEY-06-06 (Taskforce)

R116KEY-06-02: clarification on Remote Control Parking, with explicit support (NL).

R116KEY-06-06: clarification on testing from TÜV, with Task Force support. NL required to clarify tolerance.

* Annex 11, requirement 4.3.2.c: “distance not less ~~greater than~~ [1 m /2 m]”

Conclusion: corrections are agreed.

1. Boundary of functional operation

Documents: R116KEY-06-03 (Taskforce)

R116KEY-06-04 (OICA-CLEPA)

1. Explanation on the reached boundary compromise of the Task Force, R116KEY-06-03

R116KEY-06-03 resumed Task Force understanding and CPs’ wish to limit Digital Key use to the interior of the vehicle. Compromise differentiated devices to prevent unauthorised use (by mean of locks) and immobilisers. Tolerance is needed to manage field leakage of active entry systems for immobilisers, beyond vehicle interior.

1. Testing tolerance, R116KEY-06-04

R116KEY-06-04 was presented as an industry supported study based on possible solution (Time-of-Flight, e.g. UWB technology). The analysis considers spatial group delay variation, multiple effects of multipath and pulse distortion as geometrical conditions for a total error evaluation. Safe approach considering errors distribution leads to 2 meter tolerance.

FR, EC supported clear explanations. EC questioned on possible false-positive detection (i.e. the customer is not detected in the required range).

OICA explained that the critical issue for the immobilizer is to ensure no true-negative (i.e. the digital key being outside the vehicle interior, the engine can be started while it shall not), with low error probability. Evidence was shared on close proximity error reduction at 2 meters distance (for limited true-negative risk, as false-positive inside the vehicle).

* Annex 11, requirement 4.3.2.c shall become “distance not less than [2.0 m or 2000 mm]”

NL, DE supported, after explanations, the 2 meters tolerance but with need for more precision: shall be expressed as 2.0 meter or 2000 millimeter. FR supported, also keeping brackets for GRSG guidance.

SE requested time for final decision.

Chair raised open issue on [6m] in 5.1.9. and proposed removing brackets, with NL support.

SE questioned on devices for unauthorised used (locks): explanation is given on passive access for locks not being subject to active immobiliser access requirements. In the 5th Task Force session, the decision was to concentrate on one device only for the passive start prevention.

Conclusion: agreement for “6 m” in 5.1.9. (6.1.15. and 8.1.13.) and “[2000 mm]” in Annex 11 paragraph 4.3.2.

* Consolidated informal document will be tabled at GRSG-121.
1. Status to be presented to GRSG

Documents: R116KEY-06-05 (Taskforce) draft document

The Task Force updated the drafted status with last decisions, hence achieving expected Task Force outcome.

The Task Force did not confirm the need for a new series of amendments including Transitional Provisions.

Considering new Digital Key prescriptions not impacting existing approvals, the Parties (e.g. FR) supported no need for a new series but a supplement. Decision is to address this issue to GRSG secretariat for guidance.

Reminder: previous proposal (GRSG/2020/24) introduced R155 reference and new series timeline in order to satisfy EU Parties cybersecurity considerations.

Task Force conclusions:

* GRSG final guidance is requested on open items of tolerance format and need for new series,
* Task Force achieved its goal and shall be released, according final need for antitheft regulations updates. Further R116 work would need creation of new official IWG, with Contracting Party’s lead.