

**DRAFT**

**Terms of Reference for Phase 2 and Phase 3 of the GRSP  
informal group on Child Restraint Systems**

**Submitted by the Chairman of the informal group**

This document contains the draft Terms of Reference for Phase 2 and Phase 3 of the informal group on the development of a new regulation on Child Restraint Systems.

## I. Introduction

1. The informal group has developed during 25 meetings, as described in in first mandate:
  - (a) An independent regulation: “Draft new Regulation on uniform provisions concerning the approval of enhanced Child Restraint Systems used on-board of motor vehicles” (The ECE R44 remains valid during the implementation of the new regulation).
  - (b) A multi steps approach, in three Phases 1, 2 and 3:
    - The scope of the Phase 1 of this new regulation concerns only “ISOFIX –Integral” CRS.
  - (c) A new philosophy of classification:
    - No groups
    - Classification based on standing height, maximum permissible weight (Child + CRS) and age limit for forward facing use.
    - Use of measurement device for CRS size control
  - (d) The use of the Q dummies for frontal, rear and lateral dynamic impact on a new test bench.
  - (e) The use of a support leg as well as a top tether as universal anti rotation device.
2. The main achievement of the phase 1 was:
  - (a) To create the I-Size concept:
    - Stature based classification.
    - Integral ISOFIX Child Restraints Systems only.
    - Vehicle compatibility of CRS with Support Leg or Top Tether.
  - (b) To introduce new Anthropomorphic Q dummies with their criteria
  - (c) To introduce a side impact procedure including an advanced test bench
  - (d) To extend the mandatory rear facing transport of children up to 15 months.
3. The main objectives of the group for phase 1 have been achieved and a draft proposal is ready to be assessed by GRSP at his 2011 May session. (ECE/TRANS/WP29/GRSP/2011/15).
4. In order to complete the Phase 1 two documents amending ECE R16 and ECE R14 to assess I-Size compatibility of vehicles are needed for presentation at the May 2011 session of GRSP but are still pending (OICA task).
5. This draft covers only ISOFIX Integral CRS. The group is ready to extend its work in a phase 2 to the second category of ISOFIX CRS (ISOFIX non-Integral CRS). This phase 2 could also include a review of the test pulse for frontal impact (Increased severity and CRS integrity check).
6. At the end of phase 2 (End of 2012) the type approval for ISOFIX CRS could be withdrawn from ECE R44 according to transitional provision to be included in ECE R44.
7. For the phase 3 concerning seatbelt mounted CRS there are still two options, one is to introduce these types of CRS into the new regulation, the other is to keep them in an improved ECE R44 including the outcome of the work done in phases 1 and 2 (Stature based classification, New Anthropomorphic Q dummies, Vehicle compatibility of CRS with Support Leg, Side impact procedure, Mandatory rear facing transport of children up to 15 months.)

## **II. Terms of Reference for Phase 2 and Phase 3**

8. The informal group shall consider in the Phase 2, the development into the new draft regulation for “enhanced Child Restraint Systems used on-board of motor vehicles” of the necessary amendments to integrate the category of ISOFIX non-integral CRS for consideration by GRSP.
9. The target completion date for the Phase 2 shall be the fifty-one session of GRSP (May 2012).
10. Develop definitions in Phase2, performance criteria and test methods for ISOFIX non -Integral CRS (Restraint done by the adult safety belt)
11. In Phase 2, review in the light of recent accident data the test pulse for frontal impact (Increased severity and CRS integrity check).
12. In Phase 2, review in the light of recent accident data the strict application of recognized and accepted injury criteria related to the new generation baby/child crash test Q-dummies, as supported through EEVC and other EU research programs.
13. Develop transitional provision in ECE R44 to withdraw ISOFIX application from ECE R44 regulation after acceptance by WP29 of Phase 1 and Phase 2
14. The informal group shall consider in the Phase 3, the upgrade of ECE R44 regulation for “Restraining devices for child occupants of power-driven vehicles” with the necessary amendments to integrate in this regulation for seatbelt mounted CRS the outcome of Phase 1 and Phase 2.
15. The target completion date for the Phase 3 shall be the fifty-third session of GRSP (May 2013).
16. Develop in Phase 3 the necessary amendments to upgrade ECE R44 for the Seatbelt mounted CRS in order to introduce for this category of CRS the outcome of Phase 1 and 2
17. In its work, the informal group will take into consideration amongst others the technical expertise of EEVC WG18, EEVC WG12, ISO TC22/SC12, NPACS as well as the results of the discussions held in the informal group and at GRSP
18. If necessary, the informal group shall develop complementary test methods and propose alternative judgement criteria.

### **III. Proposal for Rules of Procedure**

- (a) The informal group is open to all participants of GRSP. A limitation of number of participants from any country and organization to participate in the informal group is actually not foreseen.
- (b) A Chairman and a Secretary will govern the informal group.
- (c) The official language of the informal group will be English.
- (d) All documents and/or proposals must be submitted to the Secretary of the group in a suitable electronic format in advance of the meeting. The group may refuse to discuss any item or proposal which has not been circulated 5 working days in advance.
- (e) An agenda and related documents will be circulated to all members of the informal group at least one week in advance of all scheduled meetings.
- (f) The process will pursue consensus. When consensus cannot be reached, the chairman of the group shall present the different points of view to GRSP.
- (g) The progress of the informal group generally will be reported to GRSP as an informal document and presented by the chairman.
- (h) All working documents should be distributed in digital form, and accessible on the UNECE website in the GRSP folder.  
([http://www.unece.org/trans/main/wp29/wp29wgs/wp29grsp/crs\\_1.html](http://www.unece.org/trans/main/wp29/wp29wgs/wp29grsp/crs_1.html))