Draft proposal for amendments to UNECE R107

General remark:

The proposed working document is divided in 2 parts:

- The 1st part is already in the format of an official document as the items contained in it were discussed in depth by the informal group;
- The 2nd part is in the format of a table with 2 columns, because the experts are expected to produce inputs and comments for discussion at the 5th meeting (Paris, 2-3 March 2011).

This document includes the proposals of document GRSG-100-09.

In the proposal below, the proposed new text is in **bold** characters, and the text proposed for deletion is in strike-through characters.

A. PROPOSAL

2. <u>Definitions</u>

...

- 2.41. "<u>Overnight locking system</u>" means a system designed to provide the possibility to secure the service and emergency doors of the vehicle against opening.
- 2.42. "<u>Emergency lighting system</u>" means a lighting system helping the occupants to locate the emergency exits in case of emergency.
- 2.43. "<u>Safety sign</u>" means a configuration of visual elements intended to convey a safety-related message.

...

Annex 3

- 7.6. <u>Exits</u>
- 7.6.1. <u>Number of exits</u>
- 7.6.1.1 The minimum number of doors in a vehicle shall be two, either two service doors or one service door and one emergency door. Every double-deck vehicle shall have two doors on the lower deck (see also paragraph 7.6.2.2.). The minimum number of service doors required is as follows:

Number of	Number of service doors		
passengers			
	CLASS I & A	CLASS II	CLASS III & B
9 - 45	1	1	1
46 - 70	2	1	1
71 - 100	3	2	1
	(2 in the case of		
	a double-deck vehicle)		
> 100	4	3	1

- 7.6.1.2. The minimum number of service doors in each rigid section of an articulated vehicle shall be one except that this minimum number shall be two in the case of front section of an articulated vehicle of Class I.
- 7.6.1.3. For the purpose of this requirement, service doors equipped with a poweroperated control system shall not be deemed to be emergency doors unless they can be readily opened by hand, once the control prescribed in paragraph 7.6.5.1. has been actuated, if necessary.
- 7.6.1.4. The minimum number of emergency exits shall be such that the total number of exits in a separate compartment is as follows:

The number of exits for each separate deck (in the case of a double-deck vehicle) and each separate compartment must be determined separately. Toilet compartments or galleys are not considered to be separate compartments for the purposes of defining the number of emergency exits. Escape hatches can only count as one of the above-mentioned number of emergency exits.

- 7.6.1.6. A double service door shall count as two doors and a double or multiple window as two emergency windows.
- 7.6.1.7. If the driver's compartment does not provide access to the **a** passenger compartment by means of a passageway **that permits** complying with one of the conditions described in paragraph 7.7.5.1.1
 - (a) the front edge of the cylindrical gauge defined in paragraph 7.7.5.1. to reach at least the transverse vertical plane tangential to the foremost point of the driver's seat back in its rearmost longitudinal position, and
 - (b) from this plane, it is possible to move the panel shown in Annex 4, figure 7 forwards from the contact position, with the cylindrical gauge until it reaches at least the vertical plane tangential to the foremost point of the driver's seat cushion,

the following **requirements** conditions shall be met:

7.6.1.7.1. The driver's compartment shall have two exits, which shall not both be in the same lateral wall. When one of the exits is a window, **this window** it shall comply with the requirements set out in paragraphs 7.6.3.1. and 7.6.8. have a minimum area of 400,000 mm², it shall be possible to inscribe in this area a rectangle measuring 500 mm x 700 mm and it shall comply with the requirements set out in paragraph 7.6.8. for emergency windows.

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7.6.1.7.2. One or two seats are permitted alongside the driver for additional people, in which case both of the exits referred to in paragraph 7.6.1.7.1. shall be doors.

The driver's door shall be accepted as the emergency door for the occupants of those seats, provided that it is possible to move a test gauge from the occupants' seats to the exterior of the vehicle through the driver's door (see Annex 4, figure 27).

Verification of the access to the driver's door shall be subject to the requirements of paragraph 7.7.3.2., by using the test gauge having a dimension of $600 \times 400 \text{ mm}$, as described in paragraph 7.7.3.3.

The **service** door provided for the passengers shall be in the side of the vehicle opposite to that containing the driver's door and shall be accepted as the emergency door for the driver.

Up to five additional seats may be fitted in a compartment incorporating the driver's compartment, provided that the additional seats and the space for these seats comply with all requirements of this Regulation and at least one door giving access to the passenger compartment complies with the requirements of paragraph 7.6.3. for emergency doors.

- 7.6.1.7.3. In the circumstances described in paragraphs 7.6.1.7.1. and 7.6.1.7.2., the exits provided for the driver's compartment shall not count as one of the doors required by paragraphs 7.6.1.1. to 7.6.1.2., nor as one of the exits required by paragraph 7.6.1.4., except in the case mentioned in paragraphs 7.6.1.7.1. and 7.6.1.7.2. Paragraphs from 7.6.3. to 7.6.7., 7.7.1., 7.7.2. and 7.7.7. shall not apply to such exits. Paragraphs 7.6.3. to 7.6.7., 7.7.1., 7.7.2. and 7.7.7. shall not apply to the exits provided for the driver's compartment as referred to in paragraphs 7.6.1.7.1. and 7.6.1.7.2.
- 7.6.1.7.4. In the circumstances described in paragraphs 7.6.1.7.1. and 7.6.1.7.2., the exits provided for the driver's compartment and any seats alongside the driver shall not count as one of the doors required by paragraphs 7.6.1.1. to 7.6.1.2., nor as one of the emergency exits required by paragraph 7.6.1.4. for any other passenger compartment.
- 7.6.1.7.5. Up to five additional seats may be fitted in a compartment incorporating the driver's compartment and any seats alongside the driver, provided that the additional seats and the space for these seats comply with all requirements of this Regulation and at least one of the emergency exits required by paragraph 7.6.1.4. is a door giving access to the passenger compartment complying with the requirements of paragraph 7.6.3.1.2. for emergency doors.
- 7.6.1.8. If the driver's compartment is accessible from a passenger compartment by means of a passageway complying with the requirements of parts (a) and (b) of paragraph 7.6.1.7., and any seats adjacent to it this driver's compartment, are accessible from the main that same passenger compartment

by means of a passageway complying with one of the conditions described in paragraph 7.7.5.1.1., no external exit is required from the driver's compartment.

- 7.6.1.9. If a driver's door or other exit from the **driver's** compartment is provided in the circumstances described in paragraph 7.6.1.8. it may only count as one of the required exits an exit for passengers in vehicles of Class A or B provided:
- 7.6.1.9.1. it satisfies the requirements relating to the dimensions of emergency door indicated in paragraph **7.6.3.1.2.** 7.6.3.1.;
- 7.6.1.9.2. it fulfils the requirements indicated in of paragraph 7.6.1.7.2.;
- 7.6.1.9.3. the space reserved for the driver's seat shall communicate with the main passengers' compartment through an appropriate passage; such requirement shall be deemed to be fulfilled if the test gauge described in paragraph 7.7.5.1. can move unobstructed from the gangway, until the front end of the gauge reaches the vertical plane tangential to the foremost point of the driver's seat back (this seat being situated in its rearmost longitudinal position) and, from this plane, the **test gauge** panel described in paragraph 7.6.1.7.2. **can** could be moved to the emergency door in the direction established by such paragraph (see Annex 4, figure 28) with seat and steering wheel adjustment in their mid position.

7.6.1.9.4. If there is a door opposite the driver's door, the provisions of paragraph 7.6.1.9. shall apply to it, provided that there is not more than one passenger's seat beside the driver.

- 7.6.1.10. Paragraphs 7.6.1.8. and 7.6.1.9. do not preclude there being a door or other barrier between the driver's seat and the passenger compartment provided that this barrier can be released quickly by the driver in an emergency. A driver's door in a compartment protected by such a barrier shall not be counted as an exit for passengers.
- 7.6.1.11 Escape hatches, additional to the emergency doors and windows, shall be fitted in vehicles of Class II, III and B (in the upper deck roof in the case of doubledeck vehicles). They may also be fitted in the case of Class I and A vehicles. There shall not be any escape hatches fitted in the roof of a trolleybus. The minimum number of hatches shall be:

Number of passengers	Number of hatches
(in the upper deck in the case of double-	
deck vehicles)	
not exceeding 50	1
exceeding 50	2

Proposal from	n the editorial task force	Remarks
7.6.1.12. Each in	tercommunication staircase shall	
be considered to be an	exit from the upper deck of a	
double-deck vehicle.		

Proposal from the editorial task force	Remarks
7.6.1.13. All persons accommodated in the lower	
situation, have access to the exterior of the vehicle	
situation, have access to the extension of the vehicle	
7.6.1.14 The upper deck.	English native speakers kindly
deck vehicle shall be connected by one or more	requested to improve the grammar
intercommunication staircases to the access passageway	requested to improve the grammar.
of a service door or to the lower deck gangway	
within 3 m of a service door:	
7.6.1.14.1. two, or at least one and-one-half	English native speakers kindly
staircase, shall be provided in Class I and Class II	requested to evaluate relevancy of
vehicles if more than 50 passengers are carried on the	the language. (two, or at least)
upper deck;	
7.6.1.14.2. Two, or at least one and-one-half,	English native speakers kindly
staircases are to be provided in Class III vehicles if	requested to evaluate relevancy of
more than 30 passengers are carried on the upper deck.	the language. (two, or at least)
7.6.1.15. In the case of a vehicle without a roof,	
the exits on the deck without a roof shall be such as to	
fulfil those prescriptions that are not incompatible with	
the absence of the roof.	
7.6.2. Siting Positioning of exits	Request for comments from the IG
	on:
	– Annex 7, para.1.b): need to
	address the question of
	whether one door is enough
	for vehicles of 22
	passengers, or even more
	(Class I).
	- Possible harmonization of
	7.6.2.1 (formar) among all
	classes of vehicles
7.6.2.1. Vehicles of Classes I, II and III having	Editorial work performed by
a capacity exceeding 22 passenger seats shall meet the	editorial task force as requested per
requirements shown below.	document SDWEE-02-07-Rev.1
7.6.2.1.1. The service door(s) shall be situated on	Experts are kindly requested to
the side of the vehicle that is nearer to the side of the	provide clarification about the
road corresponding to the direction of traffic in the	difference between "the vehicle is
country in which the vehicle is to be licensed for	to be licensed for operation" and
operation and at least one of them shall be in the	"the country in which the vehicle is
forward half of the vehicle. This does not preclude:	to be registered" (para. 7.6.2.2.1.)
7.6.2.1.1.1. the provision of a specially designed	
door in the rear or side faces of a vehicle for use in	
place of a service door by wheelchair passengers, or	
7.6.2.1.1.2. the provision of an additional service	See note under para. 7.6.2.6.
door in the rear face of a vehicle principally for	
loading/unloading of goods or luggage, but which could	

Proposal from the editorial task force	Remarks
be used by passengers where circumstances so require.	
or	
7.6.2.1.1.3. the provision of one or more additional	Justification in document
service door(s) on the opposite side of the vehicles	GRSG/2002/13:
vehicle in the case of vehicles designed for use in	"Re. paragraph 5.6.2.1.:
circumstances which require loading/unloading	Provision for special types of
boarding / alighting of passengers on both sides of the	vehicle currently in use, so as to
vehicle . Examples of such circumstances include	permit type approval of such
vehicles for airside use at airports, vehicles for use on	<i>types.</i> " This provision cannot be
multimodal transport systems using island platforms, or	found in R36, R52 nor Directive
vehicles which cross borders to countries which do not	2001/85/EC. It is hence reasonable
drive on the same side of the road as the country in	to believe that the provision was
which the vehicle is to be licensed for operation.	added seeking to "go beyond the
Vehicles so equipped shall be provided with control(s)	task of merging" the above
which allow the driver to inhibit normal operation of the	regulatory texts (see note of
doors which are not currently in use or	document GRSG/2002/13).
$\frac{762114}{1000}$ the provisions of a service door in the	Transferred to para 76225 as
rear face of a Class A or B vehicle	applying to classes A & B
7.6.2.2 If the passenger's compartment has an	Becomes 7 6 2 3
$\frac{1}{2}$ area S ₀ equal or greater than 10 m ² two of the doors	Decomes 7.0.2.5.
referred to in paragraph 7.6.1.1 shall be separated such	
that the distance between transverse vertical planes	
through their centres of area is not less than:	
7.6.2.2. Vehicles of Classes A and B having a	Editorial work performed by
capacity not exceeding 22 passengers may meet either	editorial task force as requested per
the requirements shown below or those contained in	document SDWEE-02-07-Rev.1
Annex 7, paragraph 1.2.	
7.6.2.2.1. The service door(s) shall be situated on	
the side of the vehicle that is nearer to the side of the	
road corresponding to the direction of the traffic in	
the country in which the vehicle is to be registered,	
or in the rear face of the vehicle.	
7.6.2.2.2. The exits shall be placed in such a way	
that there is at least one exit on each side of the	
vehicle.	
7.6.2.2.3. The forward half and the rearward	
half of the passenger space shall each contain at least	
one exit.	
7.6.2.2.4. At least one exit shall be situated	
either in the rear face or in the front face of the	
vehicle unless an escape hatch is fitted.	
7.6.2.2.5. The provisions of a service door shall	– Comes from former para.
apply also in the rear face of a Class A or B the	7.6.2.1.4.
vehicle.	 Request for comments from the
	IG: discuss the possibility to
	extend to all vehicle classes.
7.6.2.3. If the passenger's compartment has an	Per document GRSG/2010/6.
area S_0 equal or greater than 10 m ² , two of the doors	adopted as a Supplement, at

Proposal from the editorial task force	Remarks
referred to in paragraph 7.6.1.1 shall be separated such	GRSG-98.
that the distance between transverse vertical planes	
through their centres of area is not less than:	
7.6.2.3.1. In the case of a single deck vehicle, 40	
per cent of the overall length of the passenger	
compartment measured parallel to the longitudinal axis	
of the vehicle.	
In the case of an articulated vehicle, this requirement	
shall be fulfilled if two doors of the different sections	
are separated such that the distance between the doors is	
not less than 40 per cent of the overall length of the	
combined passenger compartment (all sections).	
If one of these two doors forms part of a double	
door this distance shall be measured between the two	
doors which are furthest apart.	
7.6.2.3.2. In the case of a double-deck vehicle, two	
of the doors referred to in paragraph 7.6.1.1. shall be	
separated such that the distance between transverse	
vertical planes through their centres of area is not less	
than either 25 per cent of the overall length of the	
vehicle or 40 per cent of the overall length of the	
passenger compartment on the lower deck; this shall not	
apply if the two doors are on different sides of the	
venicie. If one of these two doors forms part of a	
double door, this distance shall be measured between	
The axits (on each deck in the case of a $7.6.2.4$	
double-deck vehicle) shall be placed in such a way that	
their number on each of the two sides of the vehicle is	
substantially the same (This shall not imply the need to	
provide additional exits over and above the number	
specified in paragraph 7.6.1.) Any exits in excess of the	
required minimum number need not be substantially	
balanced on each of the two sides.	
7.6.2.5. At least one exit shall be situated either	– Origin: UNECE R36 para
in the rear face or in the front face of the vehicle	5 6 2 4
respectively. For Class I vehicles and for vehicles with	 "rear part permanently closed
a rear part permanently closed off from the passenger	off from the passenger
compartment, this provision is fulfilled if an escape	compartment" means that in
hatch is fitted. For double-deck vehicles, this	current Class I vehicle
requirement shall apply only to the upper deck.	constructions, one can expect
	the power train unit, CNG/LPG
	installation, A/C system, add-
	blue installation, etc. to be
	located in the rear of the
	vehicle, hence preventing the
	exit through the rear wall.

Proposal from the editorial task force	Remarks
7.6.2.6. The exits on the same side of the vehicle	No better wording could be offered
shall be suitably spaced out along the length of the	by the editorial task force.
vehicle.	
7.6.2.7. A door shall, provided that it is not a	The editorial task force couldn't
service door, be permitted in the rear face of the	find out why it was deemed
vehicle.	contradictory to para. 7.6.2.1.2. by
	SDWEE-02.
7.6.2.8. If escape hatches are fitted, they shall be	
positioned as follows: if there is only one hatch, it shall	
be situated in the middle third of the passenger	
compartment the vehicle; if there are two hatches, they	
shall be separated by a distance of at least 2 m measured	
between the nearest edges of the apertures in a line	
parallel to the longitudinal axis of the vehicle.	
7.6.3. Dimensions of exits	
7.6.3.1. Vehicles of Class I, II or III shall meet	
the following requirements:	
7.6.3.1.1. A service door shall have an aperture	
creating an access in accordance with the requirements	
shown in paragraph 7.7.1. of this annex.	
7.6.3.1.2. An emergency door shall have a door	Classes A & B: real scale tests at
aperture with a minimum height of 1,250 mm and a	300 mm: unfeasible for some
minimum width of 550 mm.	experts (Warsaw meeting).
	Need to revise the dimensions and
	the whole table of Annex 7.
	Harmonization with Classes I, II &
	III to be reviewed as well.
7.6.3.1.3. An emergency window shall have a minimum area of 400 000 mm^2 . It shall be possible to	SDWEE-02 (Warsaw):
insprihe in this area a restangle	- Group keen to get information
macuring 500 mm y 700 mm	about the use of Emergency
measuring 500 mm x 700 mm.	Exits in case of accident.
	- Sure they are used, but no
	research. No data seem
	currently available to the
	informal group.
	- CEESAR to be approached by
	Alan Davis.
	- Rear face reduced dimensions
	to be reviewed.
7.6.3.1.4. In the case of an emergency window	EURO VI Class I vehicle rear end
situated in the rear face of the vehicle, either it shall	space demand makes it technically
inter the requirements snown in paragraph /.6.3.1.3., or	challenging to go beyond the
it shall be possible to inscribe in the aperture of this	requirement hones it is successful
and 1 550 mm wide the corners of which may be	by the aditorial task force not to
and 1,550 min white, the conners of which had be rounded to a radius of curvature not exceeding 250 mm	amond the provisions of paras
	$76313 \& \Lambda$
76315 An escape batch shall have a batch	Proposal for new dimensions per
aperture with a minimum area of 400.000 mm^2	document SDWFF-04-10
uperture with a minimum area of +00,000 min	U = U = U = U = 10

Proposal from the editorial task force	Remarks
450,000 mm². It shall be possible to inscribe in this	It is considered an improvement of
area a rectangle measuring 500 mm 600 mm 700 mm.	the level of safety to increase the
	required dimensions of the escape
	hatches. The proposal increases the
	surface of the hatch by 12.5% in
	order to take into account the
	situations in the real world, i.e. the
	occupants wearing winter clothes,
	elderly people etc. With the same
	attention given to safety, the
	minimum area of the rectangle to
	be inscribed in the hatch aperture is
	increased by 20%.
7632 Vahiolog of Class A or P may most either	-
the requirements shown in performent 7.6.2.1 (Class A	
meeting Class I requirements and Class P meeting	
Class II and III requirements) or those contained in	
Anney 7 paragraph 1 1	
7.6.4 Technical requirements for all service doors	Outside of the scope of the
	SDWEE informal group, except for
	the additional provisions for
	overnight locking systems, per
	document SDWEE-04-10
7.6.4.11. If an overnight locking system is	Per document SDWEE-04-10
provided, the following shall apply:	See justifications to the new
	paragraph 2.41. (definition of
	"overnight locking system")
7 6 4 11 1 the locking system shall have been	Per document SDWEE-04-10
automatically deactivated when the ignition is in the	See justifications to the new
"ON" position, or	paragraph 2.41. (definition of
F,	"overnight locking system")
764112 a warning shall be provided to the	Par document SDWEE 04 10
driver indicating that the overnight locking system	See justifications to the new
remains in operation at one or more door(s) when	naragraph 2 41 (definition of
the ignition is in the "ON" position. One signal may	"overnight locking system")
be used for more than one door.	over ingite identing system)
7.6.5. Additional technical requirements for power-	No provisions influencing
operated service doors	emergency situations.
7.6.6. Additional technical requirements for	No provisions influencing
automatically-operated service doors	emergency situations.
7.6.7. <u>Technical requirements for emergency doors</u>	Additional provisions for overnight
	locking systems, per document SDWEE-04-10
7.6.7.2. Emergency doors, during their use as such,	Paragraph 7.6.7.2 permits that
shall not be of the power-operated type, unless, either a	emergency doors are power-
service door control prescribed in paragraph 7.6.5.1.	operated provided that they meet
or a control for a dedicated emergency door	certain provisions. One of the
complying with the provisions of paragraph 7.6.5.1.	provisions seems to suggest that

Proposal from the editorial task force	Remarks
once one of the controls prescribed in paragraph 7.6.5.1.	there must be an emergency device
has been actuated and returned to its normal position,	for opening the emergency door.
the doors do not close again until the driver	However, the present wording
subsequently operates a closing control. Activation of	refers to one of the devices
one of the controls"	prescribed in paragraph 7.6.5.1.,
	being the emergency devices for
	the power operated service door.
	This could bring to the conclusion
	that a power-operated emergency
	door can only be opened by the
	emergency device for service
	door(s). The proposed wording
	clarifies that either such a control or
	a control for the dedicated
	emergency door can be used to
	operate the door.
7677 If an overnight locking system is	Per document SDWFF-04-10
nrovided the following shall apply.	See justifications to the new
province, the ronowing shan uppry.	naragraph 2.41. (definition of
	"overnight locking system")
7.6.7.7.1. the locking system shall have been	Per document SDWEE-04-10
automatically deactivated when the ignition is in the	See justifications to the new
"ON" position. or	paragraph 2.41. (definition of
F	"overnight locking system")
7.6.7.7.2. a warning shall be provided to the	Per document SDWEE-04-10
driver indicating that the overnight locking system	See justifications to the new
remains in operation at one or more door(s) when	paragraph 2.41. (definition of
the ignition is in the "ON" position. One signal may	"overnight locking system")
be used for more than one door.	
7.6.8. <u>Technical requirements for emergency</u>	
windows.	
7.6.8.7. Any film (e.g. for advertising, anti-	Per document SDWEE-04-10.
vandalism, etc.) laminated to the inside and/or	
outside of an emergency window shall not prevent or	
inhibit the function as emergency exit. Proof of the	
correct function shall be demonstrated to the	
satisfaction of the Technical Service."	
7 (11 Maline Cafeta di ma	
7.6.11. <u>Warkings Safety signs</u>	Current wording of
7.0.11.1. Each emergency exit and any other exit	current wording of
that meets the prescriptions for an emergency exit shan	in normarianh 7.6.11.2.2
be marked, miside and outside the venicie, by an	in paragraph 7.0.11.2.3.
inscription reduing Emergency Exit and	The informal group agreed to
supprememented, where appropriate, by one of the relevant	for the morning group agreed to
precograms deserved in 15O standard /010:2003.	navour pictograms in all cases, with
	supplementary explanatory
	The Secretariat however found not
	The Secretariat nowever found not
	relevant to introduce the safety sign

Proposal from the editorial task force	Remarks
	provisions into a new
	paragraph 7.19 as recommended by
	SDWEE-05.
7.6.11.1. General requirements	
7.6.11.1.1. Each safety sign required by this	
Regulation shall be used to communicate only one	
safety message. The information provided shall be in	
the form of pictograms, however, words, letters and	
numbers may supplement the pictogram in	
combination on the same sign. It shall be located	
and orientated so as to be easily understood.	
7.6.11.1.1.1. Pictograms indicating a required	
action by the user shall show a person, or the	
relevant part of a person, operating the equipment	
or device.	
7.6.11.1.1.2. Pictograms indicating a required	The informal group supported the
movement shall, where appropriate, show an arrow	mandatory indication of a
pointing in the direction of motion. Where a	movement where appropriate
rotational movement is required, a curved arrow	including rotational movement
shall be used.	which is required elsewhere for
	emergency exits The particular
	case of a movement not included
	in the plan of the sticker (e.g. in
	the case of a roof hatch) will be
	addressed by the informal group
	in a later stage probably by
	defining a different nictogram
	applicable to each of the four
	different kinds of emergency exit
7.6.11.1.1.3. Where devices are to be operated,	
panels removed or doors opened, the pictogram	
shall indicate the action in progress.	
7.6.11.1.1.4. The lower case letter(s) of	
supplementary words, single letters and numbers	
shall have a minimum height of 8mm. Words shall	
not be in upper case letters only.	
7.6.11.1.2. All safety signs shall be of photo-	I ne experts of the informal group
luminescent material having luminance decay	had an agreement in principle
characteristics conforming, as a minimum, to sub-	with the proposed wording, and
classification C in Table 2 of ISO 17398: 2004, when	acknowledged that the
measured in accordance with paragraph 7.11 of that	requirement for "photo-
standard and, in the case of signs for external use,	luminescent' signs could
after testing in accordance with paragraph 7.3 of the	preclude other systems.
standard.	
7.6.11.1.3. Safety signs shall not be located in	The informal group proposes this
positions where they may be obscured during	wording as a solution to the
operation of the vehicle. However, a curtain or blind	challenge offered to the operators
may be positioned over an emergency window	to make the safety signs visible

Proposal from the editorial task force	Remarks
provided an additional safety sign indicates that the	while in the same time equipping
emergency window is located behind the curtain or	the vehicles with blinds and
blind.	curtains.
7.6.11.1.4. All safety signs shall comprise a white	It is believed that such
pictogram on a green colour background.	harmonisation is the correct
	approach for safety.
7.6.11.1.5. All safety signs shall have a white	It is believed that such
border, having a width of at least 2mm, irrespective	harmonisation is the correct
of the size of the sign.	approach for safety.
7.6.11.2. Positioning of safety signs	
7.6.11.2.1. Safety signs identifying the control or	
the device for breaking emergency windows shall be	
positioned adjacent to, or surround all internal and	
external emergency controls for all exits.	
7.6.11.2.2. No part of a safety sign shall obscure	
any misuse protection that may be present, e.g. a	
cover.	
7.6.11.2.3. Each emergency exit, and any other exit	Comes from former paragraph
that meets the prescriptions for an emergency exit, shall	7.6.11.1.
be marked, inside and outside the vehicle-by an	
inscription reading "Emergency Exit" and	
supplemented, where appropriate, by one of the relevant	
pictograms described in ISO standard 7010:2003. with	
a safety sign complying with the requirements of	
paragraphs 7.6.11.1.1., 7.6.11.1.1.4., 7.6.11.1.2.,	
7.6.11.1.3., 7.6.11.1.4. and 7.6.11.1.5.	
7.6.11.2. 7.6.11.3. The emergency controls of	
service doors and of all emergency exits shall be	
marked as such inside and outside the vehicle either by	
a representative symbol or by a clearly-worded	
inscription.	
7.6.11.3. 7.6.11.4. Clear instructions concerning the	
method of operation shall be placed on or close to every	
emergency control of an exit.	
7.6.11.4. 7.6.11.5. The language in which any textual	
markings intended to comply with paragraphs 7.6.11.1.	
to 7.6.11.3. are to be inscribed shall be determined by the	
approving authority bearing in mind the country /	
countries in which the applicant intends to market the	
vehicle in liaison if necessary with the competent	
authorities of the country / countries concerned. If the	
authority of the country / countries where the vehicle is	
to be registered has the language changed, this change	
shall imply no new type-approval process.	
7.7. <u>Interior arrangements</u>	
7.7.1. Access to service doors (see Annex 4, figure l)	
7.7.2. Access to emergency doors (see Annex 4,	SDWEE-02 (Warsaw):
figure 5)	"Gauges seem smaller than the

Proposal from the editorial task force	Remarks
The following requirements shall not apply to driver's doors used as emergency exits in vehicles having a capacity not exceeding 22 passengers.	Emergency Exits. Dimensions of gauges will be considered at next meeting". Issue was however subsequently not covered. The IG members are kindly requested to provide input.
7.7.2.1. Except as provided for in paragraph 7.7.2.4., the free space between the gangway and the emergency door aperture shall permit the free passage of a vertical cylinder 300 mm in diameter and 700 mm high from the floor and supporting a second vertical cylinder 550 mm in diameter, the aggregate height of the assembly being 1400 mm. The diameter of the upper cylinder may be reduced at the top to 400 mm when a chamfer not	
exceeding 30 degrees from the horizontal is included.	
7.7.2.2. The base of the first cylinder shall be within the projection of the second cylinder	
7.7.2.3 Where folding seats are installed	
alongside this passage, the free space for the cylinder shall be required to be determined when the seat is in the position for use.	
7.7.2.4. As an alternative to the dual cylinder, the gauging device described in paragraph 7.7.5.1. may be used (see Annex 4, figure 6).	
7.7.3. <u>Access to emergency windows</u>	
7.7.3.1. It shall be possible to move a test gauge from the gangway to the exterior of the vehicle through every emergency window.	
7.7.3.2. The direction of motion of the test gauge shall be in the direction in which a passenger evacuating the vehicle would be expected to move. The test gauge shall be kept perpendicular to that direction of motion.	
7.7.3.3. The test gauge shall be in the form of a thin plate having a size of 600 mm x 400 mm with corners radiused by 200 mm. However, in the case of an emergency window in the rear face of the vehicle, the test gauge may alternatively have a size of 1400 mm x 350 mm with corners radiused by 175 mm and the intrusion of headrests of seats or other parts of seats shall be allowed provided they can be easily moved out of the way.	 Per document SDWEE-04-10 SDWEE-04 decided to review the additional wording for decision at its March 2011 meeting. The IG members are kindly requested to provide input. Access to emergency exits should be harmonized (doors, where the additional states)
7741 Escape batches in the roof	Windows, hatches, etc.)
$\frac{1}{1}$	10
7.7.4.1.1. Except in the case of Class I and A	Reports on bus accidents have
vehicles, at least one escape hatch shall be located such	shown that the emergency hatches
that a four-sided truncated pyramid having a side angle	in the roof are only used when the

Proposal from the editorial task force	Remarks
of 20 degrees and a height of 1,600 mm touches part of	bus or coach has tilted. While the
a seat or equivalent support. The axis of the pyramid	bus or coach is in the driving
shall be vertical and its smaller section shall contact the	position the emergency hatches are
aperture area of the escape hatch. Supports may be	not used by the passengers in the
foldable or movable provided they can be locked in	case of emergency.
their position of use. This position shall be taken for	Therefore it seems justifiable that
verification.	no exit support is required.
	The figure N° 26 to which these
	paragraphs refer should be deleted
	as well
77412 When the structural thickness of the roof	Reports on bus accidents have
is more than 150 mm, the smaller section of the	shown that the emergency hatches
nyramid shall contact the aperture area of the escape	in the roof are only used when the
batch at the level of the outside surface of the roof	bus or coach has tilted. While the
naten at the level of the outside surface of the root.	bus or coach is in the driving
	position the emergency hatches are
	not used by the passengers in the
	not used by the passengers in the
	Therefore it sooms justifiable that
	no exit support is required
	The figure N^{0} 26 to which these
	The figure N 20 to which these
	paragraphs refer should be deleted
	as well.
7.8.3. (Reserved) Emergency lighting	Proposal from the editorial task
	force, per SDWEE-04, to introduce
	provisions for emergency lighting
	system, as a medium term
	requirement, i.e. with addition of
	relevant transitional provisions.
7.8.3.1. It shall be possible for the driver to	
activate the emergency lighting system from the	
driver's sealing position.	
7.8.5.2. The opening of any emergency door shall activate the amorgonov lighting system	
7.8.2.3. When a vahiale is fitted with an	The aditorial task force is well
amorgonay switch [complying with the requirements	awara that the Degulation N°26
of paragraph XXX of this Degulation and aground	does not apply anymore. The
of this amorgonou switch shall activate the	informal group experts are
of this energency switch shall activate the	requested to provide input on
emergency lighting system of the venicle.	whether introducing the relevant
	movisions into Deculation Nº107
	provisions into Regulation N 107.
1.0.3.4. vynen a venicie is equipped with a	
deceleration sensor, engagement of a switch related	
to the deceleration sensor signal shall activate the	
emergency lighting system of the vehicle. The	
manufacturer snall demonstrate by documentation	
to the Technical Service the relationship between the	
deceleration threshold and the activation of the	
emergency lighting system.	

Proposal from the editorial task force	Remarks
7.8.3.5. When a vehicle is equipped with a tilt	
angle sensor, engagement of a switch related to the	
tilt angle sensor signal shall activate the emergency	
lighting system of the vehicle. The manufacturer	
shall demonstrate by documentation to the	
Technical Service the relationship between the tilt	
angle threshold and the activation of the emergency	
lighting system.	
Annex 4, Figure 8, footnote <u>1</u> /: current text remains	The informal group decided in its
unchanged, to read:	4 th meeting to keep the current text
$\underline{1}$ 700 mm in the case of an emergency door.	of the regulation unchanged
1,500 mm in the case of an emergency door in	because a maximum value of
the upper deck of a double-deck vehicle.	850 mm permits the manufacturer
850 mm maximum in the case of an emergency	to design vehicles with lower steps
door in the lower deck of a double-deck vehicle.	when necessary.
Annex 4, Figure 20: replace "siting" with "positioning"	
Annex 4, Figure 26: amend to read "Reserved"	Amended per document SDWEE-
	04-10
Annex 7, paragraph 1.2.: replace "siting" with	
"positioning"	

B. JUSTIFICATION

Paragraph 2.41.

Addition of a definition of "overnight locking system" as a proposal from the SDWEE informal group to include the item in the Regulation, per paragraphs 7.6.4.11. (service doors) and 7.6.7.7. (emergency doors). According to IRU, centralized overnight unlocking would be appreciated by most European operators in order to facilitate some basic security features. The informal group agreed to address this issue as centralized overnight locking system might interfere with the functioning of the emergency exits.

Paragraph 2.42.

Addition of a definition of "emergency lighting system". The SDWEE informal group found opportune to add provisions for emergency lighting system as a practical way to help the occupants of a vehicle reaching access to the exits in case of emergency.

Paragraph 2.43.

The informal group found relevant to introduce new provisions for safety signs in order to improve the level of safety thanks to some harmonisation of the signage. The informal group agreed to introduce the provisions relating to the safety signs in the existing paragraph 7.6.11. (markings).

Paragraph 7.6.1.7.

None of the conditions described in paragraph 7.7.5.1. are applicable to the driver's compartment. Paragraph 7.7.5.1.1.1. is the most suited but in most vehicles it is impossible to move the panel forward by 660 mm as the dashboard in front of the driver is usually curved November 2010 / SDWEE-02-07-Rev 3

so that the controls are within the driver's reach. The proposal that the gangway test gauge is moved to coincide with the driver's seat back (as for the forward facing passenger seat and for paragraph 7.6.1.9.3. describing how a driver's door can be used as an exit for passengers) and then the panel is moved forward to the foremost point of the driver's seat cushion. This is to ensure that the driver has sufficient free height and width when accessing or leaving his seat.

Paragraph 7.6.1.7.1.

The requirements for emergency windows are specified in paragraph 7.6.3.1.3. so it is more precise copy the current text of 7.6.3.1.3. into paragraph 7.6.1.7.1.

Paragraph 7.6.1.7.2.

The minimum dimensions are applicable to service doors only.

It is clearer if this paragraph only deals with the driver's seat and seats alongside (without a passageway to the passenger's compartment) and the requirements for the five additional seats being transferred into a new paragraph (7.6.1.7.5.).

Paragraph 7.6.1.7.3.

Moving of the last sentence of paragraph 7.6.1.7.4., which helps to define the technical requirements for the exits defined in paragraphs 7.6.1.7.1. and 7.61.7.2., from that paragraph and putting it alone in a revised paragraph 7.6.1.7.3. Having prescribed when and where exits are required it is better to fix their technical requirements immediately, rather than to "hide" them as the last sentence of a following paragraph.

Paragraph 7.6.1.7.3. renumbered as 7.6.1.7.4.

The text of existing paragraph 7.6.1.7.3. is difficult to comprehend. The intention is that when the driver's compartment and any passenger seats alongside the driver do not have an acceptable passageway to a passenger compartment, then the driver's door and the passenger's door on the opposite side of the vehicle are not accessible to any other passengers and shall not be counted as exits for the passenger compartment. The passenger compartment requires the exits as defined in paragraph 7.6.1. without using the driver's and front passenger's doors.

New Paragraph 7.6.1.7.5.

Moved from paragraph 7.6.1.7.2. and modified to make it clear that:

a) the five additional seats are in addition to any passenger seats alongside the driver;

b) as there is no passageway between the front seats (driver's and adjacent passenger's) and the five additional seats, these additional seats must be considered as being in a separate compartment with the required number of exits (two), one of which must be an emergency door giving access to the main passenger compartment.

Note: Paragraphs 7.6.1.8. & 7.6.1.9 are specific to vehicles <u>in which there is</u> an acceptable passageway from the driver's and adjacent passenger's seats to the passenger compartment. Paragraph 7.6.1.8. says that in such vehicles an external exit <u>is not required</u> from the driver's compartment, but paragraph 7.6.1.9. says that <u>if an exit is provided</u> it can be counted as an exit for the passengers with no limit on the number of passengers.

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Paragraph 7.6.1.9.

Clarification that when there is an acceptable passageway between the passenger's compartment and the driver's compartment, the driver's door and/or the front passenger's door can only be used for passengers in vehicles of Class A or B. This possibility came from Regulation N° 52 and did not exist in Regulation N° 36.

Paragraph 7.6.1.9.1.

The requirements for emergency doors are specified in paragraph 7.6.3.1.2. so it is more precise to specify this paragraph rather than paragraph 7.6.3.1., which applies to all exits.

Paragraph 7.6.1.9.3.

Paragraph 7.6.1.7.2. refers to a test gauge and not to a panel. The word "can" is more appropriate than "could".

Paragraph 7.6.1.9.4.

Paragraph 7.6.1.9.4. is taken from paragraph 5.7.2.5. of Regulation N° 52 and is introduced to allow a door for 1 passenger seated alongside the driver to be used as an emergency door for the main passenger compartment.