

## Request for Guidance from GRSG Experts

1. In order to evaluate the conformity to « particular specifications » for devices operation under different test conditions, is there an intention to perform the test on a combined testing bench including different systems to evaluate if the final operationability including interactions with other devices is ensured or only testing of separate components is sufficient to demonstrate conformity due to complexity of some electronic architectures ?

2. The current text in the English version reads as follows:

“ 2.1. “component” means a device subject to the requirements of this regulation and intended to be part of a vehicle, which may be type-approved independently of a vehicle where this regulation makes express provisions for so doing;

### Immobilizer

#### "8.3.3. Operating safety

It shall be ensured that the immobilizer does not change its state (set/unset) as a result of any of the tests in paragraph 8.4.

8.4.1 All components of the immobilizer shall comply with prescriptions given in paragraph 6.4. of this Regulation. This requirement does not apply to:

(i) those components that are fitted and tested as part of the vehicle, whether or not an immobilizer is fitted (e.g. lamps), or

(ii) those components that have previously been tested as part of the vehicle and documentary evidence has been provided, or

(iii) components that are not embedded in the vehicle, e.g. keys.

#### 8.4.2. Test conditions

All the tests shall be carried out in sequence on a single immobilizer. However, at the discretion of the test authority, other samples may be used if this is not considered to affect the results of the other tests.

#### 8.4.3. Operation test

Upon completion of all the tests specified below, the immobilizer shall be tested under the normal test conditions specified in paragraph 6.4.2.1.2. of this Regulation to check that it continues to function normally. Where necessary, fuses may be replaced prior to the test. All components of the immobilizer shall comply with prescriptions given in paragraphs 6.4.2.2. to 6.4.2.8. and 6.4.2.12. of this Regulation.

### Alarm (VAS)

“ 6.4.2.1. Operation tests

For the operation tests required according to paragraphs 6.4.2.3., 6.4.2.4., 6.4.2.5., 6.4.2.6. and 6.4.2.8.4., if some of the tests required in each of these paragraphs prior to the operation

tests are performed in series on a single VAS, the operation test may be carried out one time only after the chosen tests are completed instead of performing the operation tests required in the paragraphs after each of the chosen tests. Vehicle manufacturers and suppliers have to guarantee satisfactory results only on non accumulated procedures.”

3. The experts from France requests guidance from GRSG to confirm understandings of application and harmonize the way of practices around the 3 following views :
- A/ The components of the immobilizer are tested individually.
  - B/ The entire assembled immobilizer is tested
  - C/ The components of the immobilizer are tested as a unit, with functional validation of the entire assembled device.
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