Submitted by the Secretary of the
UN Task Force on Cyber Security
and Over-the-Air issues

Informal document **GRVA-02-03**
2nd GRVA, 28 Jan. - 01 Feb. 2019
Agenda item 5 (b)

Status report of the UN Task Force on Cyber Security and Over-the-air Issues

Actvities of TF-CS/OTA since GRVA-01

Following GRVA-01, the UN TF-CS/OTA met from 4-5 December 2018 in order to discuss:

a) Comments received by GRVA members by 31 October 2018

a) Details on the test phase

Comments received from GRVA members received by
31 October 2018

Actvities of TF-CS/OTA since GRVA-01

Comments to the draft Recommendations on Cyber Security and Software Updates were received by Switzerland, France, Germany, Spain and FIA.

These comments had been discussed and responded to by the Task Force members.

Details can be found on the [UN TF-CS/OTA website for the 14th session](#).

(response to CH, DE and FIA see document [TFCS-14-12](#), response to France see document [TFCS-14-13](#), response to Spain see document [TFCS-14-14](#))

The general principles of the recommendations incl. regulatory annexes were confirmed by the Task Force, minor amendments for clarification had been identified and will be brought forward as a separate informal document.

Test Phase for draft UN Regulations on Cyber Security and Software Updates
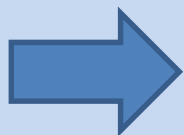
Overview

Why a „test phase"?

A new approach was taken for the draft UN Regulation by implementing organizational and vehicle system requirements:

=> Certification of the OEM organization regarding its Cyber Security and Software Update Management System (pre-condition for type approval/certification)

=> General, technology neutral security requirements are defined without detailed test procedures

Overview

Aim of the „test phase"?

=> Provide guidance on how to assess the regulatory requirements and documentation required

=> Verify the effectiveness/robustness of the Regulation(s)

=> Verify that approval authorities/technical services are able to reach the same conclusions based on identical OEM documentation

Aim is to assure the Regulation(s) and not to test the products!

Overview

Outputs of the „test phase"?

=> Interpretation guideline

=> If necessary, proposals for clarifying the Regulations

=> Report of the test phase to cover:
- conclusions on the effectiveness /robustness of the Regulation(s)
- verification that Approval authorities/ Technical Services are able to reach the same conclusions

Test phase setup/steps
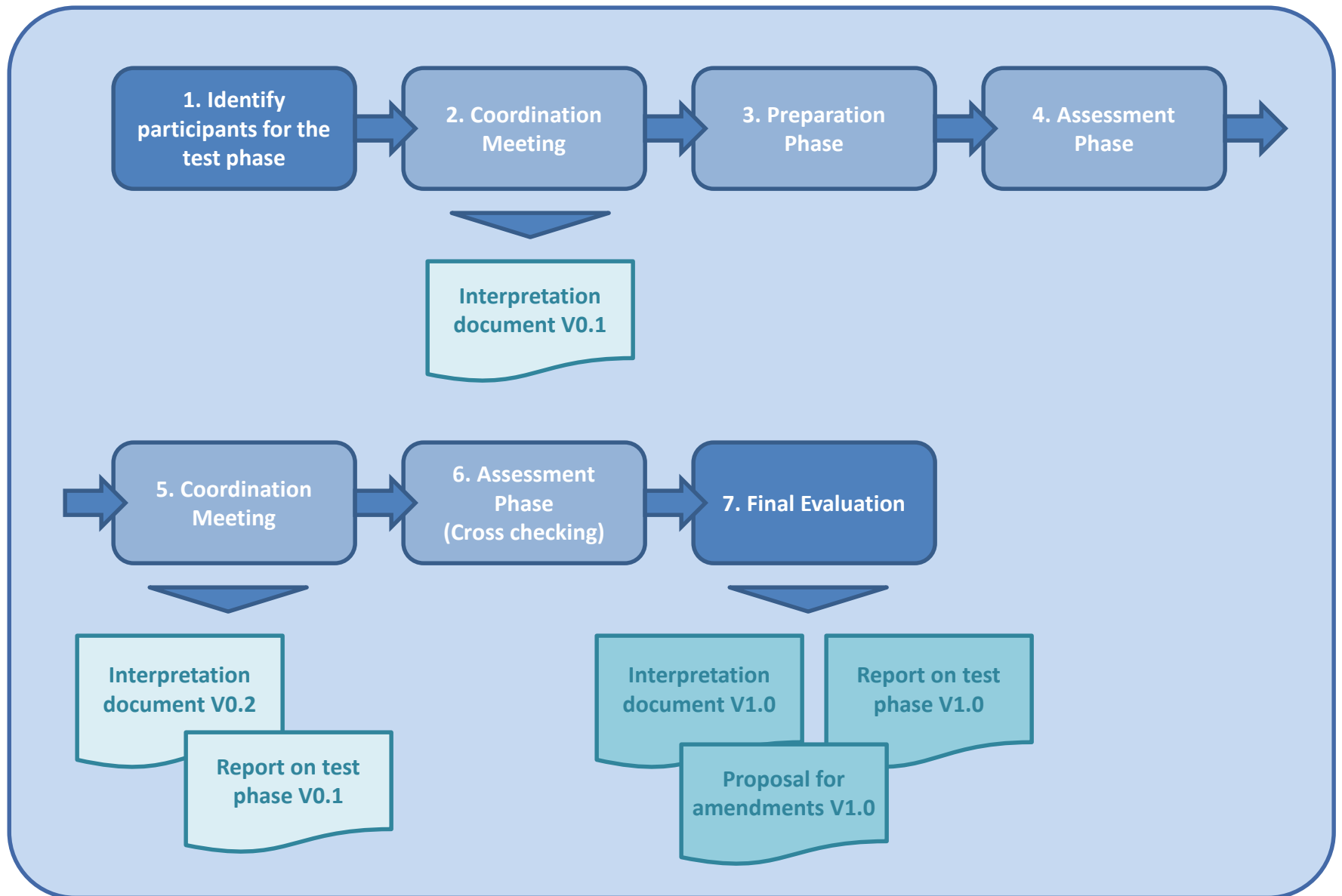
Coordination Team of the test phase

- Coordination team to draft the initial version of the Interpretation Document (V0.1)
- Coordination team consist of test participants and the TF-CS/OTA secreteriate (co-chairs + secretary)
- Co-Chairs of TF-CS/OTA to cordinate answering of queries during the assessment phase
- Coordination team to reconvene to update the Interpretation Document and produce the report of the test phase and draft amendmentments to the Regulation(s), if any
- Task force to review and approve documents through webmeetings

Test phase: 1. Identification of Participants

Approval Authorities should identify Technical Services

Interested OEMs should state:

- *With which Approval Authorities/Technical Services they are able to work with*
- *Identify for which Regulations they are participating*
- *Whether they are able to provide information allowing for the assessment of the entirety of the Regulation(s)*

Interested participants shall inform the co-chairs

- *Target: min. 3 Authorities and 3 OEMs*

Test phase planning: 2. Coordination Meeting

- Shall consist of the participating parties, co-chairs and secretary

- Aims of the meeting

  - *Arrange testing schedules*

  - *Draft initial interpretation document* (will be shared with all TF-CS/OTA members and made publically available UNECE wiki)

    - Evidence required for corresponding regulatory requirements (focus on Chapter 7)
      What should the manufacturer provide?
      Line-by-line review of the Regulation(s), with elaboration on issues identified

    - Guidance on interpretation of evidence for corresponding regulatory requirements

Test phase planning: 3. Preparation phase

- Manufacturers and Approval Authorities/Technical Services prepare for the assessment and gathering of documentation/evidence

Test phase planning: 4. Assessment phase

- Assessment of the Regulation(s) by an Approval Authority/ Technical Service using the OEM documentation/ evidence
  Confidential content is shared only between relevant parties (OEM and the assigned Approval Authority/ Technical Service)

Approval Authority A	*or*	Approval Authority A	Approval Authority B
⇕		↙	↗
OEM 1		OEM 1	
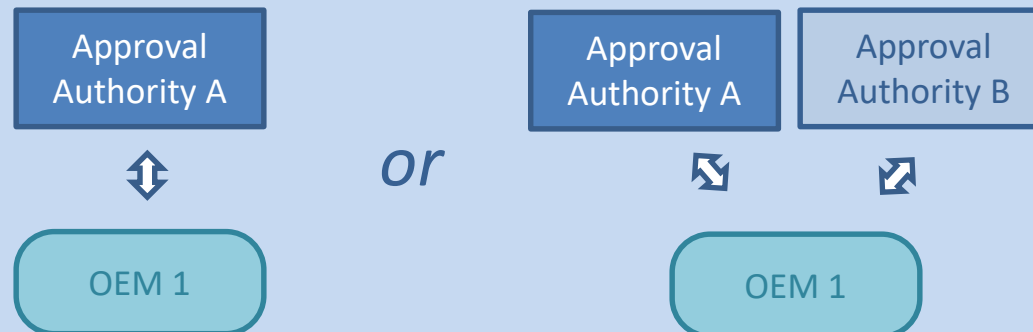
Example interactions: Documentation at this point can be share bilaterally between one OEM and one Approval Authority/ Technical Service or between one OEM and multiple AA/TS at a time

Test phase planning: 5. Coordination Meeting

- Shall consist of the participating parties, co-chairs and secretary
- Aims of the meeting
  - *Updated draft interpretation document (will be shared with all TF-CS/OTA members and made publically available UNECE wiki)*
  - *Exchange on findings of the first assessments*
    - ➢ Regulatory issues identified
    - ➢ Opinion on ability to provide and assess evidence to assess the effectiveness and robustness of the Regulation(s)
    - ➢ Not to discuss proprietary information
    - ➢ Reporting shall be anonymized

Test phase: 6. Assessment phase (cross checking)

- Assessment that Approval Authority/ Technical Service using the same OEM documentation/ evidence are able to come to the same conclusion (Round robin testing)
Confidential content is shared only between relevant parties (OEM and the assigned Approval Authority/ Technical Service)
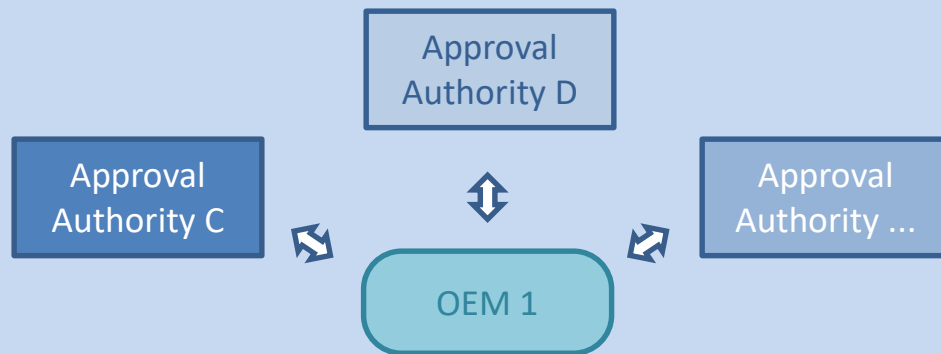
Note: May be concurrent with Step 4

Test phase: 6. Assessment phase (cross checking) – cont.

- Was it possible to assess the requirement(s)?
- Did the AA/TS reach the same conclusions? (Line-by-line)
- Is the rationale for reaching these conclusions similar?
- Summary of whether agreement was reached and areas of difficulties (disagreement) will be highlighted
- Feedback on potential improvements to interpretation document and/or Regultion(s)

Test phase: 7. Final Evaluation

- Finalization of the interpretation document

- Finalization and agreement on any regulatory amendments

- Finalization of the report on the test phase to cover:
  - conclusions on the effectiveness /robustness of the Regulation(s)
  - report on whether the Approval authorities/ Technical Services were able to reach the same conclusions

TF-CS/OTA shall agree and endorse above documents

Proposed timeline for the test phase