Provisional minutes for the thirteenth session of

the UN Task Force on Cyber Security and OTA issues (Draft)

18th September 2018, 09:00-17:00 (BST) – Cyber security

19th September 2018, 09:00-17:00 (BST) – Software updates

20th September 2018, 09:00-16:00 (BST) – Software updates (a.m.) / Cyber security (p.m.)

All hosted at The Amba Hotel, Charing Cross

(The Strand, London, WC2N 5HX)

Introduction

1. Welcome and adoption of the Agenda

The Task Force may wish to adopt the provisional agenda.

*Documentation:* TFCS-13-01 rev1 (Sec) Agenda

Agenda was adopted without changes

1. Adoption of minutes and report from tenth session and the ad hoc sessions

The chair will report the outcomes of the tenth session and ad hoc sessions. The Task Force will be asked to adopt the minutes from the previous meetings

*Documentation:* TFCS-13-02 (Sec) Minutes of TFCS-12

TFCS-ahRSUP3-07 (Chair) Minutes of ad-hoc meetings on software updates

TFCS-ahRCSP3-05 (Chair) Draft minutes of ahRCSP3

Minutes were adopted without changes/additions

Cyber Security

1. Review of actions relating to cyber security

The Task Force will review progress and actions from previous meetings

Documentation: TFCS-13-02 (Sec) Minutes of TFCS-12

TFCS-ahRCSP3-05 (Chair) Draft minutes of ahRCSP3

Action items were reviewed. All actions were completed either before or within the meeting.

1. Development of working paper

The Task Force will look to further develop the paper on cyber security and progress any areas identified for discussion.

Discussions to cover:

* Review the outstanding comments in TFCS-ahRCSP3-04 (Chair) Draft CS recommendation paper - post webex version
* Review the proposed restructuring of Annex A to fit standard UNECE terminology and formatting, as provided in TFCS-13-04 (Sec) Restructured Draft Regulation on Cyber Security (Annex A)
* Review a proposal by the USA/NHTSA to submit the requirements in the format of a Global Technical Regulation according to the 1998 Agreement of UNECE in order to aid the work of the parent group. This draft GTR could be brought forward as an additional regulatory annex to the group’s recommendation on cyber security.
* Proposal to rename “Certificate of Compliance”

The use of the term “Certificate of Compliance” may confuse people that have not participated to the UN TF because there is already in the current legislation. Possible solutions could be to systematically replace the term “Certificate of Compliance” with either:

a) “Cybersecurity Certificate of Compliance”

b) “Certificate of Compliance with Annex X to Regulation xxx” (this is the case of Regulation 133)

*Proposed order of discussion:*

* Presentation from Japan
* Presentation from Switzerland
* Presentation from OICA-CLEPA
* Review of cyber security paper

*Documentation:* TFCS-ahRCSP3-04 (Chair) Draft CS recommendation paper - post webex version

TFCS-13-03 (Sec) Comparison restructured cyber security regulation

TFCS-13-04 (Sec) Restructured Draft Regulation on Cyber Security (Annex A)

TFCS-13-06 (JPN) Comments on restructured Draft Regulation on Cyber Security (TFCS-13-04)

TFCS-13-08 (JPN) Input with regard to Approval Authority and Technical Service\_rev 2

TFCS-13-09 (OICA-CLEPA) Proposal to amend TFCS-13-04 (Restructured Draft Regulation on Cyber Security - Annex A)

TFCS-13-10 (OICA-CLEPA) Lifecycle of a vehicle type and lifetime of one vehicle

TFCS 13-11 (CH) Proposal for TaskForce CS-OTA

TFCS-13-12 (Chair) Draft Regulation on Cyber Security - Annex A - containing OICA-CLEPA and JPN comments.doc

A presentation was provided by delegates from Japan, TFCS 13-08. The proposed approach to inclusion of text on technical services was accepted.

A presentation was provided by the delegate from Switzerland, TFCS 13-11, on self-certification. Delegates from contracting parties and those representing manufacturers confirmed that they are content with the current proposal. Some delegates questioned whether the approach suggested by CH would be possible to implement and might itself add unintended burden on authorities and industry. It was accepted that the approach suggested by CH could be considered at a future point if the proposed regulations require review.

A presentation was provided by OICA-CLEPA, TFCS 13-10, on the legal limitations of the 1958 Agreement. It was agreed that the proposed UN Regulation on Cyber Security should not include requirements that would be assessed post-production (after approval is given) but it could require processes that would be applied post-production to be assessed during an approval process. The recommendation was amended to reflect this. It was noted that some parts of the recommendation would need to be checked to confirm that they are permissible within the 1958 Agreement, these areas are highlighted in Chapter 7 of the recommendation.

The cyber security paper was reviewed. Document TFCS-13-12 was used as the basis for the discussions. The output was recorded as TFCS-13-16 (Sec) Draft Recommendation on Cyber Security incl. Annex A-D (after TFCS-13 day 1).docx and then TFCS-13-18 (Sec) Final Draft Recommendation on Cyber Security incl. Annex A-D.docx. Points of note:

* The restructuring of Annex A to fit standard UNECE formats was accepted and its text was refined
* Annex 1 of Annex A was renumbered
* The definitions were refined, particularly those of risk and cyber security
* The recommendations were refined, with additional recommendations on the limits of the 1958 Agreement with regards through life issues highlighted and areas which need to be verified as being permissible within it.
* The “Certificate of Compliance” was renamed “Cyber Security Management System (CSMS) Certificate of Compliance” to avoid confusion with other uses of the same term.
* All chapters of the document were reviewed and all changes accepted and all comments agreed to be removed.
* It was noted that the document does not provide text in the format of a resolution. Therefore the paper will be submitted as a recommendation containing guidance and a draft UN Regulation. If the paper is submitted to WP29 it will become an official working paper of WP29 and therefore officially registered and publically available.
* ITU-T proposed text to include references to STIX and TAXI. This was not included as industry does not currently use this. It was agreed that these should be considered for inclusion in a future revision.
* Recommendations were added on the subjects of having a test phase to verify that the proposed regulatory approach works sufficiently well for type approval purposes and on the need for sufficient lead time for mandatory application of the requirements since vehicle architectures are affected and organizational measures have to be implemented.

At the end of the meeting the paper was accepted as being complete by the task force.

The final, clean, document was provided to GRVA as [GRVA-01-17](https://www.unece.org/fileadmin/DAM/trans/doc/2018/wp29grva/GRVA-01-17.pdf).

Software updates

1. Review of actions relating to software updates

The Task Force will review actions from previous meetings

*Documentation:* TFCS-13-02 (Sec) Minutes of TFCS-12

TFCS-ahRSUP3-07 (Chair) Minutes of ad-hoc meetings on software updates

Action items were reviewed. All actions were completed either before or within the meeting.

1. Development of working paper

The Task Force will look to further develop the paper on software updates and progress any areas identified for discussion. It is suggested that the document TFCS-13-05 (Sec) is used as a basis for discussion on the main paper.

Topics to be discussed include:

* Review the outstanding comments and proposed re-formatting provided in TFCS-13-05 (Sec) Draft SW update recommendation paper - as editted in adhoc meeting - reworked incl. edits
* Proposal to rename “Certificate of Compliance”

The use of the term “Certificate of Compliance” may confuse people that have not participated to the UN TF because there is already in the current legislation. Possible solutions could be to systematically replace the term “Certificate of Compliance” with either:

a) “SW update Certificate of Compliance”

b) “Certificate of Compliance with Annex X to Regulation xxx” (this is the case of Regulation 133)

*Documentation:* TFCS-13-05 (Sec) Draft SW update recommendation paper - as edited in adhoc meeting - reworked incl. edits

TFCS-13-07 (JPN) Comments on draft SW update recommendation paper (TFCS-ahRSUP3-06)

TFCS-13-13 (Chair) Draft example GTR paper for software updates

TFCS-13-14 (Chair) Comparison of Software Updates Annex A to example GTR paper

The software update paper was reviewed. Document TFCS-13-07 was used as the basis for the discussions. The output was recorded as TFCS-13-19 (Sec) Final Draft Recommendation on Software Update Processes incl. Annex A-B. Points of note:

* The “Certificate of Compliance” was renamed “Software Update Management Systems (SUMS) Certificate of Compliance”. A definition for this was provided.
* All chapters of the document were reviewed and all changes accepted and all comments agreed to be removed. In the meeting:
  + Parts of Annex B which relate to general approvals of vehicles or processes were moved to Annex A.
  + Annex 1 of Annex A was renumbered
  + The definitions were refined, and unused definitions deleted
  + The flow diagram was updated
  + Text of both the software update paper and cyber security paper were updated to ensure consistency of wording and approach (were appropriate).
* It was noted that the document does not provide text in the format of a resolution. Therefore the paper will be submitted as a recommendation containing guidance and a draft UN Regulation. If the paper is submitted to WP29 it will become an official working paper of WP29 and therefore officially registered and publically available.
* The recommendations were refined, with additional recommendations on the limits of the 1958 Agreement with regards through life issues and production definitely discontinued highlighted and areas which need to be verified as being permissible within it. This in particular relates to annex B.
* Recommendations were added on the subjects of having a test phase to verify that the proposed regulatory approach works sufficiently well for type approval purposes and on the need for sufficient lead time for mandatory application of the requirements since vehicle architectures are affected and organizational measures have to be implemented.

It was noted that ISO are looking to revise/update ISO 14229 to include a standardized way for reading RXSWIN from the OBD port.

At the end of the meeting the paper was accepted as being complete by the task force.

The final, clean, document was provided to GRVA as [GRVA-01-18](https://www.unece.org/fileadmin/DAM/trans/doc/2018/wp29grva/GRVA-01-18.pdf).

The US delegate presented a drafted example of what a GTR on software updates and cyber security might look like (TFCS 13-13). The following was noted from the discussion:

* The draft example includes requirements present in an earlier version of the software update and cyber security papers that might be suitable for inclusion in a GTR.
* The draft example is not a finished work and has no text for some sections (for instance part A)
* It was agreed that to produce a GTR a lot more work would be needed. TFCS 13-13 could be used as a basis for starting such work.
* OICA-CLEPA stated that they would support the concept of a GTR being developed.
* It was noted that there is a formal procedure in place to initiate a GTR. The group agreed not to progress work on developing a draft Global Technical Regulation under the 1998 Agreement until this procedure is initiated and there is a formal request to do so.

1. Conclusions /action items

The group agreed it had met its Terms of Reference and produced recommendations on cyber security and software updates. No actions are outstanding.

The work of the task force included 12 physical meetings and 22 ad-hoc meetings (video conferences) beginning on the 21st of December 2016 and ending on the 20th of September 2018. The physical meetings were spread between seven different cities in three continents (London, Paris, Geneva, Washington DC, The Hague, Tokyo and Seoul).

The secretariat was invited to send the recommendations to GRVA together with an agreed explanatory final report. The task force agreed that GRVA should be invited to initiate procedures to: adopt the recommendations as working papers of WP29; and for the proposed regulatory annexes to be adopted under the 1958 Agreement.

The final output of the task force is available as:

GRVA-01-17 (UN TF-CS\_OTA) Final Draft Recommendation on Cyber Security incl. Annex A-D.docx

GRVA-01-18 (UN TF-CS\_OTA) Final Draft Recommendation on Software Updates incl. Annex A-B.docx

GRVA-01-19 (UN TF-CS\_OTA) Final Report TFCS.pptx

The co-chairs noted the amazing support of all participants and organizations in producing these papers and expressed their gratitude and thanks.

1. Next steps and meetings

The task force agreed not to reconvene until invited to do so by the GRVA (or another UNECE body). If this happens the terms of reference of the group should be reviewed to ensure they are appropriate.