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1958 Agreement:

**development of an electronic database for the exchange
of type approval documentation (DETA)**

Proposal for specifications and application guidelines for the Declaration of Conformity (DoC) module

Submitted by the experts from the Informal Working Group on Database of the Exchange of Type Approval documentation*

The text reproduced below was presented by the Informal Working Group on Database of the Exchange of Type Approval documentation (DETA) to WP.29 at its 178th session (ECE/TRANS/WP.29/1147, para. 85). It is based on WP.29-178-25 and WP.29-178-26/Rev.1. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) for consideration at its November 2019 session.

* In accordance with the programme of work of the Inland Transport Committee for 2018–2019 (ECE/TRANS/274, para. 123 and ECE/TRANS/2018/21/Add.1, Cluster 3.1), the World Forum will develop, harmonize and update UN regulations to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Document of Conformance module

A. Specification of the Document of Conformance functions in DETA

1. The Declaration of Conformity will be provided in XML and RTF format.
2. For the XML format, an XML Schema Definition file (XSD) as part of the delivery package will be provided.
3. The DoC in RTF format will conform to the example from ...
4. In both the XML and RTF format, the version number and the last change date of the data for the requested VIN will be included (as XML data or document footer, respectively).
5. Content
 - 5.1. The DoC will contain the following data fields:

<i>Data field</i>	<i>Data origin</i>	
Approval number	DETA approval document	
Issue date	DETA approval document	
VIN	VIN entity	From upload
IWVTA class	IWVTA entity	From upload
IWVTA type	IWVTA entity	From upload
Vehicle category	VIN entity	From upload
Name of manufacturer	IWVTA entity	From upload
Conformance list	IWVTA entity	From upload

- 5.2. The conformance list contains several items, each consisting of a UN Regulation Number and a series of amendment number, which are part of the IWVTA upload.

B. Access

6. A DoC can be accessed in two ways:
 - (a) The DETA user interface will contain a section ‘DoC’ where a user can request a DoC (in either XML or RTF format) for a VIN.
 - (b) A Web Service will be provided to allow DoC download from outside DETA. The Web Service will provide the functionality of downloading DoCs (in either XML or RTF format) for a limited number of VIN’s provided in the Web Service request. The limitation of the number of VIN’s can be configured and depends on the technical restrictions of the installation (Network bandwidth; limitation of number of datasets ...). The format of the Web Service request will be provided as part of the delivery package. For the access to the Download Web Service special user accounts must be used that are not permitted to access the DETA user interface
7. Access rights will be defined by WP.29

C. Request history

8. The DETA system will keep track of all downloads of DoCs using the DETA user interface or the Web Service for revision reasons. The system administrator can for example use this information in order to verify the contents of downloaded DoCs.
9. To avoid the database growing too large, the DETA system can be configured to remove request history data after some time. (Two options: DoC-Document only; both)

D. Upload VIN and IWVTA

(a) Format

10. The upload of VIN and IWVTA data to the Upload Web Service will be in XML format.

11. For this XML format, an XML Schema Definition file (XSD) will be provided as part of the delivery package.

(b) Content

12. An upload to the Web Service may contain both IWVTA and VIN data.

13. For IWVTA, the required data fields are:

- Approval number (key field)
- IWVTA class
- IWVTA type
- Name of Manufacturer
- Conformance list (items consisting of a UN Regulation No and a series of amendment number)

14. For VIN, the required data fields are:

- VIN (key field)
- Approval number (of IWVTA – foreign key field)
- Vehicle category

(c) Upload action

15. The Web Service provides functionality to upload IWVTA and VIN data for the first time (insert), change the data (update) or remove it from the system (delete; only for VIN data).

16. The following checks are made on uploaded data depending on the defined action:

- **Insert:**
The key of the uploaded data item must not exist in the system yet.
- **Update:**
The key of the uploaded data item must already be in the system.
- **Delete:**
The key of the uploaded data item (VIN only; IWVTA can't be deleted) must already be in the system.

17. Special handling of deleted VIN data

- Deleting a VIN will not completely remove the data from the system, instead it will only be marked as deleted and will be inaccessible by DoC requests. A subsequent update action on a deleted VIN will be considered as an error; however an insert action on a deleted VIN will be allowed.

18. Each time a data item is uploaded (inserted, updated or deleted), the date and time of the change will be stored with this data item and its version counter will be incremented.

19. The following checks are made on uploaded data independent of the defined action:

- Uploads by Manufacturers are allowed only for IWVTA and VIN data for the Manufacturer's own approvals and vehicles.
- Uploads by TAAs are allowed only for IWVTA and VIN data for the approvals the TAA has granted and for the vehicles that are covered by those approvals.

20. For the access to the Upload Web Service special user accounts must be used that are not permitted to access the DETA user interface.

(d) Report (OK/Error)

21. Every upload to the Web Service is checked for structural correctness (compliance with the XSD) and for consistency within itself and with the DETA database.

22. If the upload doesn't comply with the XSD, the complete upload will be rejected.

23. Uploaded data that is incorrect (e.g. duplicate entries, VIN data referring to non-existent IWVTA) will not be imported into the DETA database.

24. Each Web Service request will return an Upload Report detailing which parts of the upload were imported and which parts had errors and could therefore not be imported. Any error listed in the Update Report will always contain the reason why data was rejected.

25. The Upload Report will be in XML format and the XML Schema Definition file (XSD) will be delivered as part of the delivery package.

(e) Upload protocol

26. The DETA system will keep track of all uploads of VIN / IWVTA data using the Web Service.

27. Manufacturers and TAAs that have uploaded VIN / IWVTA data can view the list of uploads they have performed and can download their uploaded files using the DETA user interface.

28. To avoid the database growing too large, the DETA system can be configured to remove upload protocol data after some time.

(f) Extension of DETA- Document part type "OTHER"

29. In addition to the existing document parts types "CERT" (approval document), "IF" (information folder) and "TR" (test report), a document part type "OTHER" (for all other kind of documents) will be introduced.

II. Application guidelines

30. The application is defined in UN Regulation No.0.
