Unit C4: Road Safety

Project:

Country report *<Country name>*

Authority report *<Authority name>*

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| () |

Abstract

**In the scope of the Vehicle Information Platform feasibility study, this questionnaire has the objective to collect all necessary information on one of the registers involved in the national Periodic Technical Inspection and Road Side Inspection processes.**

Document information

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# Context of the vehicle information platform.

In 2010, The European Commission, Directorate General for Mobility and Transport (DG MOVE) led an Impact assessment study on Roadworthiness Package. This study was triggered by the fact that there are too many vehicles with technical defects on the road causing accidents, injuries and fatalities. The study provided evidence on the link between road safety improvement and higher roadworthiness requirements.

The study also identified two root causes of the high level of technical defects:

* The scope of the current EU legislation is too narrow and the level of requirements it sets is too low
* Concerned actors don’t exchange information and vital data for effective tests and test results enforcement

In order to increase road safety, the EU decided to update current roadworthiness regulations in order to take the vehicle’s technological evolution into account and to enable the implementation of a vehicle information data exchange platform. The purpose of this system is to exchange technical information related to the vehicles only.

The updated regulation proposal specifies that member states (MS) competent authority shall exchange data. This updated regulation will support the data-exchange platform. One of the objectives aims towards a more harmonised Periodic Technical Inspection process throughout the EU.

An important aspect of this new regulation foresees that vehicle manufacturers shall provide Periodic Technical Inspection (PTI) centres or National Authorities with the necessary technical information for roadworthiness testing.

Article 15 of the new Regulation proposal on periodic roadworthiness tests requires the Commission to examine the feasibility, costs and benefits of the implementation of an electronic Vehicle Information Platform (VIP).

The objective of this platform VIP is to enable competent authorities of MS, roadworthiness test centers and vehicle manufacturers to exchange technical information related to vehicle approval, vehicle registration and vehicle testing.

# Context of the Present study

In June 2013, the Commission contracted Unisys Belgium to conduct the feasibility study of a Vehicle Information Platform. The study includes desk-based research and interviews with different stakeholders in MS. These last are conducted in a two-step process:

* E-mail questionnaires sent to stakeholders of MS for collecting general and specific background information on Vehicle information.
* Possible face-to-face interviews with stakeholders in MS to understand the different perspectives and gather more in-detail information where needed.

The key objective of this questionnaire is to gather information about your national organization and systems dealing with roadworthiness processes, focusing on data exchange with other MS.

This Questionnaire offers you the chance to provide the European Commission with more insights on your current organisation. Moreover, it offers you the possibility to clarify and communicate your needs and priorities in this domain.

## About the questionnaire

This questionnaire aims to provide more information on the current register which has been identified as being part of the existing vehicle information registers of your MS. The objective of this questionnaire is to gain more detailed information on the system and the data exchanged.

Future needs and suggestions linked to the Vehicle Information Platform are also addressed

The European Commission requests to have this questionnaire filled in and sent back 3 working weeks after reception.

This questionnaire is the complement of another questionnaire that has been addressed at national level with the objective of understanding the current national organisation in terms of Vehicle Approval, Vehicle Registration, Periodic Technical Inspection (PTI) and Road Side Inspection (RSI).

## How to complete this questionnaire

To help you answering the questionnaire, we have settled different kind of questions; open questions, checks boxes, and tables to be filled in. Editable paragraphs/fields where you can provide your answers are highlighted.

Some questions give you the opportunity to provide comments or to give more explanation.

When answering the questions, please keep in mind that the purpose is to gain a clear understanding and overview on the register concerning data, functionalities and communication channels at national and EU level.

Additionally, the questions give you the opportunity to provide your comments and suggestions on vehicle information exchange with other MS.

## Important notice

For further enquiries regarding the project in general or this questionnaire, do not hesitate to send an e-mail to the following e-mailbox: [VIPstudy@unisys.com](mailto:VIPstudy@unisys.com).

## Guarantee of Confidentiality

This individual questionnaires will be disclosed “as-is” to the European Commission, but not “as-is” to any other party. However the findings will be consolidated in a general overview or in comparative tables for the purpose of study or trend analysis.

Personal information concerning contact names is needed for further contacts. This information will not be disclosed “as-is” to any party and will only be used by the European Commission in the scope of the study.

# SPECIFIC INFORMATION ABOUT THE REGISTER <REGISTER NAME>

## Register identification and overview

Please fill in information about the person replying to the questionnaire

This information is needed for the European Commission to have a contact name in case they would need clarifications on the responses.

Surname:

Name:

Email:

Phone (with international prefix):

Organization:

Function:

Surname:

Name:

Email:

Phone (with international prefix):

Organization:

Function:

Please complete the following register identification information:

Please ensure that the register name is also enlisted in the table 1 from the “Vehicle Information - Country Overview” questionnaire.

Register name:

Register owner:

Register objectives:

What business goals are supported by the register/system?

Please explain:

For what categories of vehicles does the system contain information, since when and what is the data retention period? Please fill in the following table.

| Vehicle category | Data stored (Y/N) | Since When  (DD-MMM-YY) | Data retention period  (months) |
| --- | --- | --- | --- |
| **M**  Motor vehicles with at least four wheels designed and constructed for the carriage of passengers |  |  |  |
| **N**  Motor vehicles with at least four wheels designed and constructed for the carriage of goods |  |  |  |
| **O**  Trailers (including semi-trailers) |  |  |  |
| **L**  Mopeds, motorcycles, tricycles and quadricycles |  |  |  |
| **T**  Agricultural and forestry tractors |  |  |  |

Table 1: System vehicle data storage information

Does the system handle personal data?

Please explain:

Does the system link personal data with vehicle information?

No

Yes, by which field are those data linked?

Please explain:

Does the system contain information about vehicles registered in other MS?

No

Yes, which data elements are stored?

Please explain:

### What evolutions have been already planned concerning the collection and exchange of vehicle information data?

Please specify:

### Does the system currently exchange vehicle information data with registers/systems from other MS?

Please identify the register/system names and the MS.

|  |  |
| --- | --- |
| Register/system name | MS (please enlist if needed) |
|  |  |
|  |  |
|  |  |

Table 2: System’s international exchanges

Additional comment:

## System data

### In order to understand which vehicle information data the register currently exchanges, please identify the kind of information that is exchanged for the business processes enlisted in the table below. In order to understand the future needs, please identify and prioritize the need for the business process.

The objective is to collect detailed information on the current information exchanged between the registers and understand future needs in terms of data exchange.

For each identified business process in the following table, please specify whether specific functionality is already available in the system at the national level.

* + If yes, please specify
    - The kind of information exchanged: more detail on information will be asked in the following question
    - The name(s) of the other register(s) system(s) exchanging the information with the register the document is about
  + If no – please assign priority according to needs: 1: absolute necessity, 2: nice to have, 3: not needed.

| Business process | Currently available  (Y/N) | Information exchanged | | Register/System name | Priority of the future needs (1-3) |
| --- | --- | --- | --- | --- | --- |
| 1. **Vehicle identification functionalities** | | | | | |
| * 1. Verify Certificate of Conformity with national register | *i.e: Y* | *i.e: VIN nr, CoC* | *National Type approval register*  *EU type approval register* | |  |
| * 1. Verify Registration document with national register |  |  |  | |  |
| * 1. Verify previous registration data with relevant national register |  |  |  | |  |
| * 1. Check for duplicates based on: |  |  |  | |  |
| * + 1. *License plate nr* |  |  |  | |  |
| * + 1. *VIN* |  |  |  | |  |
| * + 1. *Others, please specify:* |  |  |  | |  |
| * 1. Others, please specify |  |  |  | |  |
| 1. **PTI functionalities** | | | | | |
| * 1. Verify reasons and results of previous PTI, date and place PTI was performed |  |  | |  | 2 |
| * 1. Verify previous recorded value of the odometer |  |  | |  | 2 |
| * 1. Obtain relevant technical information of a vehicle based on the VIN in order to perform the test for the following inspection areas: | Depending on MS | In accordance with Directive 2009/40/EC | |  | 1 |
| * + 1. *Braking equipment* |  |  | |  | 1 |
| * + 1. *Steering* |  |  | |  | 1 |
| * + 1. *Visibility* |  |  | |  | 1 |
| * + 1. *Lighting equipment and parts of electric system* |  |  | |  | 1 |
| * + 1. *Axles, wheels, tyres, suspension* |  |  | |  | 1 |
| * + 1. *Chassis and chassis attachments* |  |  | |  | 1 |
| * + 1. *Supplementary tests for passenger carrying vehicles* | N |  | |  | 1 |
| * + 1. *Other equipment, please specify* |  |  | |  |  |
| * + 1. *Nuisance (noise and emissions)* |  |  | |  | 1 |
| * + 1. *Electronic Controlled safety Systems (ECSS):* |  |  | |  |  |
| * + - 1. *Electronic Stability Control (ESC)* |  |  | |  | 1 |
| * + - 1. *Anti-lock Braking System (ABS)* |  |  | |  | 1 |
| * + - 1. *Electronic Braking System (EBS)* |  |  | |  | 1 |
| * + - 1. *Electronic Power Steering (EPS)* |  |  | |  | 1 |
| * + - 1. *Emergency Brake Assist (EBA)* |  |  | |  | 1 |
| * + - 1. *Supplemental Restraint Systems (SRS)* |  |  | |  | 1 |
| * + - 1. *Safety Belt Load Limiter* |  |  | |  | 1 |
| * + - 1. *Safety Belt Pretensioner* |  |  | |  | 1 |
| * + - 1. *Airbag* |  |  | |  | 1 |
| * + 1. *Speed control* |  |  | |  | 1 |
| * + 1. *Tyres calibration parameter for Tachograph* |  |  | |  | 1 |
| * 1. Issue PTI certificate and store it |  |  | |  | 3 |
| * 1. Send PTI certificate to National Authority |  | As provider of information for the PTI certificate | |  | 1 |
| * 1. Others, please specify |  |  | |  |  |
| * 1. Others, please specify |  |  | |  |  |
| 1. **Road Side Inspection functionalities** | | | | | |
| * 1. Check risk score for a transport undertaking operator |  |  | |  |  |
| * 1. Verify results from previous RSI, date and place RSI was performed |  |  | |  | 3 |
| * 1. Issue RSI report and store it |  |  | |  |  |
| * 1. Send RSI report to relevant National Authority |  | As provider of information for the RSI certificate | |  | 1 |
| * 1. Send RSI report to other MS |  |  | |  |  |
| * 1. Others, please specify |  |  | |  |  |
| 1. **REPORTS and STATISTICS** | | | | | |
| * 1. Send reports and statistics to EU institutions |  |  | |  |  |
| * 1. Send statistics for quality checks to the supervising authority |  |  | |  |  |
| * 1. Send reports and statistics for accident research and policy making |  |  | |  |  |
| * 1. Others, please specify |  | All information and results collected by PTI equipment can be made available for statistics purpose in order of justifying and improving PTI. | |  |  |
| 1. **Other functionalities (please add as many rows as needed)** | | | | | |
| * 1. Please specify: |  |  | |  |  |
| * 1. Please specify: |  |  | |  |  |

Table 3: System functionalities and future needs

Additional comment:

### For each kind of information specified in the previous table, please describe the details on the content of the information concerned.

The objective is to gather details on data currently exchanged with this register and future needs. Please fill in the table as following:

* Information exchanged: refer to the ‘information exchanged’ from the previous table
* Detailed information data: please specify detailed information data concerning the information exchanged
* Currently available: please identify if the information is currently available
* Future need:
  + Y: if the current information is still needed, or a missing information is needed in the future. In that case, please identify the detailed information needed.
  + N: This information is not needed in the future.

Please note that data filled in below is an example only.

|  |  |  |  |
| --- | --- | --- | --- |
| Information exchanged | Detailed information data | Currently available  (Y/N) | Future need  (Y/N) |
| *Example: CoC* |  |  |  |
|  | *VIN number* | *Y* | *Y* |
|  | *Category* | *Y* | *Y* |
|  | *Make* | *N* | *Y* |
|  | *EC type-approval number* | *N* | *Y* |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 4: Exchanged information description

Additional comment:

The information are available in accordance with Directive 2009/40/EC. Discussion is ongoing to switch from Directive to Regulation.

Can you please provide the data dictionary of the system? If possible, please provide a copy in English.

Additional comment:

Is the system using standard codes (dictionaries) for specific types of fields? Please fill in the table below:

|  |  |
| --- | --- |
| Standard codes (dictionaries) | Types of fields concerned |
| *Example* |  |
|  |  |
|  |  |

Table 5: System standard codes

Additional comments:

If the system has an indexing server, what data are indexed?

Personal data

Vehicle Identification Number

Vehicle Registration Number

PTI last inspection date

Other, please specify:

What data security mechanism(s) is/are implemented on the systems (data at rest)?

Encryption

Signature with digital certificate

Authentication with digital certificate

Hashing

Access Control (please specify method used):

Other, please specify:

## Information exchange

In respect of the new regulation proposal, what are the requested conditions to be met in order to exchange additional PTI and RSI information?

Please explain:

### Does the system currently exchange vehicle information data with registers/systems from other MS?

Please identify the register/system names and the MS.

|  |  |
| --- | --- |
| Register/system name | MS (please enlist if needed) |
|  |  |
|  |  |
|  |  |

Table 6: List of registers from other MS exchanging data.

To what type of network is the system currently connected?

Internet

National Administration network (please specify)

sTESTA

Intranet

Other, please specify:

If the current system exchanges data with other systems, what are the channels of communication and security implemented? Please select all that apply.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Present | Current channel | | Preferred channel with VIP | |
|  | **(Y/N)** | **Encryption**  **(Y/N)** | **Signature**  **(Y/N)** | **Encryption**  **(Y/N)** | **Signature**  **(Y/N)** |
| HTTP/HTTPS |  |  |  |  |  |
| Web-services |  |  |  |  |  |
| FTP/FTPS |  |  |  |  |  |
| e-mail |  |  |  |  |  |
| Other: please specify |  |  |  |  |  |

Table 7: System communication channels description

Additional comment:

If the current system exchanges data with other systems (including import and export), what are the formats exchanged and security implemented? Please select all that apply.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Current format | | | Preferred format with VIP | |
|  | **Encryption**  **(Y/N)** | **Signature**  **(Y/N)** | | **Encryption**  **(Y/N)** | **Signature**  **(Y/N)** |
| JSON |  | |  |  |  |
| XML |  | |  |  |  |
| Photos, what format is used? Please specify: |  | |  |  |  |
| Scanned documents, what format is used? Please specify: |  | |  |  |  |
| PDF |  | |  |  |  |
| Csv |  | |  |  |  |
| Excel files |  | |  |  |  |
| Other: please specify |  | |  |  |  |
|  |  | |  |  |  |

Table 8: System data format exchange

Additional comment:

Concerning data exchange, what data security mechanism(s) is/are implemented on the system?

Encryption

Signature with digital certificate

Encrypted channel

Other, please specify:

## System usage statistics

How many vehicle information records does the system contain? What is the expected annual increase (# records/year)?

Please specify:

How many single users are currently using the system?

Please specify:

How many searches and create/update/delete operations are executed by the system per year? What is the yearly growth of those operations? Please fill in the table below.

|  |  |  |
| --- | --- | --- |
|  | Search operations | Create/update/delete operations |
| Yearly number of operations |  |  |
| Yearly expected growth |  |  |
| Maximum acceptable number of operations without change of Service Level Agreements |  |  |

Table 9: System’s operations description

Additional comments:

## Service Level Agreement (SLA)

What are the SLA’s applicable to the system?

Please complete the following table:

|  |  |
| --- | --- |
| SLA | Value |
| Maximum Response time (seconds) |  |
| Availability (percentage / year) |  |
| Maintenance:   * Defined maintenance window * Mean time to repair (MTTR) |  |
| System performance   * Minimum number of transactions/second * Maximum number of transactions/second |  |
| Other, please specify |  |

Table 10: System SLA

Additional comments:

## System costs

What are the overall costs of the system? Please complete the following table:

|  |  |
| --- | --- |
| Type of costs | Amount (Mio €) |
| Yearly budget for operations |  |
| Yearly budget maintenance |  |
| Yearly budget foreseen for further development |  |

Table 11: System costs

Additional comments:

# 

# Terminology

## Acronyms & Abbreviations

|  |  |
| --- | --- |
|  |  |
| **Acronym or Abbreviation** | **Meaning** |
| COC | Certification of Conformity |
| DG MOVE | European Commission Directorate-General for Mobility and Transport |
| EU | European Union |
| MS | Member State |
| MTTR | Mean Time to Repair |
| PTI | Periodic Technical Inspection |
| RSI | Road Side Inspection |
| SLA | Service Legal Agreement |
| sTESTA | Secure Trans European Services for Telematics between Administrations |
| VIP | Vehicle Information Platform |

Table 12: Acronyms & Abbreviations

\*\*\* End of