



**LEA support services;  
Interfaces for Lawful Disclosure of vehicle-related data:  
scenarios, examples and recommendations**

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**Reference**

DTR/LI-00214

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**Keywords**

interface, security, trust

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# Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Lawful Interception (LI).

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# Modal verbs terminology

In the present document "**should**", "**should not**", "**may**", "**need not**", "**will**", "will not", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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# 1 Scope

The present document describes an interface consisting of requests from a Law Enforcement Agency for vehicle-related data and the responses to those requests. The present document describes some usage scenarios and puts forward some examples for this interface. The present document includes a recommendation for the details of how the interface could work.

---

## 2 References

### 2.1 Normative references

Normative references are not applicable in the present document.

### 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI TR 103 767: "Lawful Interception (LI); Considerations about interfacing with providers of vehicle information".
- [i.2] ETSI TS 123 003: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Numbering, addressing and identification (3GPP TS 23.003)".
- [i.3] ISO 20078-1:2021: "Road vehicles - Extended vehicle (ExVe) web services - Part 1: Content and definitions".
- [i.4] ETSI TS 103 280: "Lawful Interception (LI); Dictionary for common parameters".
- [i.5] ISO 3779:2009: "Road vehicles - Vehicle identification number (VIN) - Content and structure".
- [i.6] COM/2018/225 final: "Proposal for a Regulation of the European Parliament and of the Council on European Production and Preservation Orders for electronic evidence in criminal matters".
- [i.7] SAE J853-2009: "Vehicle Identification Numbers".

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

Void.

### 3.2 Symbols

Void.

### 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

C-ITS	Cooperative Intelligent Transport Systems
ExVe	Extended Vehicle
GPS	Global Positioning System
HTTP	Hyper Text Transfer Protocol
HTTPS	Hyper Text Transfer Protocol Secure
ICCID	Integrated Circuit Card IDentification
ID	IDentifier
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
ISO	International Organization for Standardization
JSON	JavaScript Object Notation
LEA	Law Enforcement Agency
OEM	Original Equipment Manufacturer
PEI	Permanent Equipment Identifier
RPS	Response Processing System
SAE	Society of Automotive Engineers
VIN	Vehicle Identification Number
XML	eXtensible Markup Language

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## 4 Structure of the present document

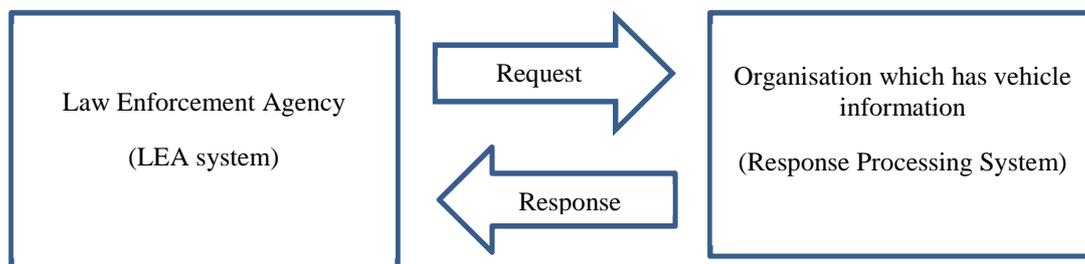
The present document includes:

- Reference model and description of basic responsibilities (clause 5).
- List of examples of use cases (clause 6).
- Recommendation for how the interface should be implemented (clause 7).
- Usage scenarios (annex A).
- Example data structures (annex B).

---

## 5 Reference model

Figure 5.1 shows the reference model for the present document.



**Figure 5.1: Reference model**

The Law Enforcement Agency (LEA) is responsible for creating a lawful request. The LEA system delivers the request to a Response Processing System (RPS). The legal obligation on RPS (for example, what has to be delivered, what has to be retained) is considered independently of the delivery interface and is out of scope of the present document.

This architecture is designed to address use cases that can be met by transactional requests/responses. The present document does not attempt to describe use cases that require an ongoing live stream of data from an RPS (such as voice or video).

The request sent by the LEA needs to be clear. A request is clear if it is explicit to an RPS whether any particular record (held by an RPS) matches or does not match the request.

The RPS is responsible for the collection of the data within its organization and produces the data using its own capabilities and entirely under its control. The RPS identifies the data which matches the request, and only that data. The RPS is entitled to put in place a human review of the request and delivered material. The RPS packages the data, attaches relevant information (including a timestamp and the unambiguous reference to the issued request) and delivers it to the requesting LEA.

The term RPS is used to cover any organization which holds vehicle-related data where there is a lawful reason for it to respond to requests for information. It is not intended to include only manufacturers and may include any relevant commercial or government organization.

---

## 6 Examples of use cases

### 6.1 Overview

This clause contains a list of use cases which are intended to provide some useful illustrations. This is not an exhaustive list and there is no implication that these use cases are lawful or required in any particular jurisdiction (that is a legislative matter which is out of scope).

### 6.2 List of example use cases

#### 6.2.1 Vehicle identification number to international mobile equipment identifier

This use case is called VIN-to-IMEI. In this use case, the LEA knows a Vehicle Identification Number (VIN) and requests the IMEI(s). An illustration is given in annex B.

Other variants of this use case could include other equipment identifiers beyond an IMEI, specifically including PEI.

For the VIN-to-IMEI use case:

- The request includes the VIN, as a string (checked to be compliant with the relevant standard, e.g. ISO 3779 [i.5] and SAE J853-2009 [i.7]).
- The response contains zero, one or more IMEI(s) (in the format defined in 3GPP TS 23.003 [i.2]) associated with the supplied VIN, or an error code.

NOTE 1: As with all use cases, the request and response would also contain the core parameters listed in clause 7.

NOTE 2: VIN-to-IMEI could be considered a canonical use case in that it is a simple, common example which is still complex enough to illustrate key concepts and challenges. It shows how to deliver benefits which are listed in ETSI TR 103 767 [i.1] (clarity, efficiency, auditability, security, privacy).

NOTE 3: This use case is only applicable to vehicles with manufacturer-issued VINs (which may exclude some vehicles from before 1985).

#### 6.2.2 International mobile equipment identifier to vehicle identification number

This use case is called IMEI-to-VIN and is the reverse of VIN-to-IMEI, i.e. an IMEI is known and the VIN is requested.

Other variants of this use case could include other Equipment Identifiers beyond an IMEI, specifically including the Permanent Equipment Identifier (PEI).

### 6.2.3 Vehicle identification number to international mobile subscriber identifier

This use case is called VIN-to-IMSI. In this use case, the LEA knows a Vehicle Identification Number (VIN) and requests the IMSI(s).

Other variants of this use case could include other subscriber identifiers beyond an IMSI.

NOTE 1: There may be more than one IMSI associated with a given VIN.

The VIN-to-IMSI association could be made in a variety of ways (by the manufacturer, by a third party, at a dealer, or by the customer themselves). The present document does not comment on how or where any such association is made. The use case applies to the situation in which an RPS holds this mapping, and an LEA has lawful justification to request the data.

NOTE 2: This category could also include VIN-to-ICCID.

### 6.2.4 International mobile subscriber identifier to vehicle identification number

This use case is called IMSI-to-VIN and is the reverse of VIN-to-IMSI.

Other variants of this use case could include other subscriber identifiers beyond an IMSI.

### 6.2.5 Vehicle identification number to location

This use case is called VIN-to-Location and shows the basic relation from a VIN to a location of a vehicle. The following considerations are made:

- The location is typically identified by providing latitude and longitude, though other clear, unambiguous formats may be considered. The location provided should have a timestamp for the time that the location was observed.
- The location could include the source of location (e.g. from a network or cell site, from a GPS, user-input).
- The request for a location would need to contain a specific time or time range. The interface would support requests for very recent locations. The latency of data reaching the databases (i.e. how up-to-date the databases are) would depend on the design of the systems involved and is out of scope of the interface.
- Depending on the implementation and purpose of the location processing, the location is retrieved based on certain operational events of the vehicle, as requested by a lawful request.
- The RPS would be responsible for responding to the request. This might take place by looking in existing databases (such as extended vehicle databases or neutral servers, as per ISO's Extended Vehicle concept defined in ISO 20078-1 [i.3]). Alternatively, the relevant information might need to be retrieved by the RPS from the vehicle.

### 6.2.6 Vehicle identification number to vehicle data

This use case is called VIN-to-VehicleData and is a request for a set of vehicle-related data based on the vehicle's VIN. The request could be for specific categories of data (see clause 7.2.4). This use case also includes the possibility of defining a request for all the information from the RPS relating to the specified VIN. The present document does not state when or whether such a request would be lawful.

---

## 7 Recommended approach for interfacing

### 7.1 Overview

The approach is divided into the following clauses:

- Information fields, including schema details (clause 7.2).
- Transport protocol (clause 7.3).

An example is given in annex B.

### 7.2 Information fields

#### 7.2.1 Request information

The following information would be present in a request (from the LEA):

- a) Administrative details:
  - Identifiers for organizations involved (LEA side and RPS side).
  - A unique request number created by the LEA side (it is also possible to consider situations in which the request number is created by the RPS side, but extra care is then needed to ensure global uniqueness).
  - Time the request message was prepared and ready to be sent.
  - It should be possible to signal an urgency or priority of the request. The format for this field (and how it is used) is defined by national systems (this can be accommodated using a free text field for priority).
- b) The details of a clear and unambiguous request:
  - The type of the request being made (e.g. VIN-to-IMEI from clause 6.2.1).
  - The criteria to be used for searching for information. This would depend on the request: for example, it would be a VIN for the VIN-to-IMEI use case from clause 6.2.1:
    - It includes the criteria to be used to identify the records that are being requested. This may need to include a time or time-range, depending on the request.
    - It could also include information describing which parts of the records should be sent, and which parts should not be sent. This might be based on the data categories listed in clause 7.2.4.
- c) Supporting information:
  - Documentation relating to the warrant or authorization where appropriate in line with national regulations. In some jurisdictions, this information is handled outside of this interface.

#### 7.2.2 Response information

The following information would be present in a response (from the RPS):

- a) Administrative details:
  - Identifiers and unique request number (copied from the request).
  - Time the response message was ready to send (not the same as the time of the request).

## b) Response details:

- The information from the RPS which matched the clear and unambiguous request (see clause 7.2.1). The formats for the information in the response may vary (for example, between different types or makes of vehicle), therefore it is important to have both clarity about what the data means, but also flexibility of data structures - see clause 7.2.3.
- There should be clear handling of errors.

## c) Supporting information:

- Nothing identified at present.

### 7.2.3 Format for request and response information

It is recommended that XML or JSON is used and that a schema is established for the data.

For the administrative details: it would be possible to write a clear and fixed schema for the relevant information (e.g. request number, date and time of request).

For the request parameters: for each of the common request types (e.g. the examples in clause 6) it would be possible to write a schema for the request information.

For the response parameters: it is likely there will be more variety of formats here. For simple common requests, it would be possible to write a clear schema (e.g. the IMEI for the VIN-to-IMEI example). For some query types, the responses might not always fit a single schema (might vary between different organizations). The following considerations might be relevant:

- Where appropriate each record would include the time of the observation, and potentially the location of the observation.
- A solution is for the RPS side to supply information in a schema they defined themselves, though it would be important that the schema was known and shared in advance or as part of the response.
- It would be possible to create a dictionary of common terms (which would include ETSI TS 103 280 [i.4] as a minimum). This could include other vehicle-related data such as VIN, speed, route, etc. Additionally, other standards from the vehicles industry should be included.
- It is recommended to consider the categories of data as described in clause 7.2.4. Where the data fits naturally into these categories, then this might help provide clarity.

### 7.2.4 Data categories

The present document identifies the following categories of response data. These may be used to help with requesting or formatting the delivery of data. There is no implication that all data will fall into one of these categories. Data should not be forced into structures or categories where it does not naturally fit, as this can cause aspects of the meaning of data to be lost.

The present document identifies the following categories of data, without implying that these data types should be stored or may be requested in any given situation:

- Identification: Identification numbers for vehicles or vehicle components.
- Location: Position at any given time.
- Routing: Planning of routes (may be different from actual routes taken).
- Driving: Driver's actions or the vehicle's assistance to the driver, including speed and information around autonomous vehicles. See clause 7.3.1 regarding live streaming of data.
- Component status: Status of individual parts of the vehicle, either user-controlled (doors, windows) or wear-and-tear and servicing. May also include fuel or battery status and expected driving range.

- Interior environment: Parameters relating to the environment inside the vehicle e.g. inside temperature, number of passengers.
- Exterior environment: Parameters relating to the environment outside the vehicle e.g. external temperature, road events.
- Infotainment: Details relating to the infotainment system (communications, music, links to other devices).
- Service history: Information relating to when the vehicle is taken to a garage or other facility.
- Customer details: Information about the person or people associated with the vehicle e.g. owner(s).

## 7.3 Delivery protocols

### 7.3.1 Use of HTTP

It is recommended to use HTTP for delivery of responses and requests (security details, including use of HTTPS, are specified in clause 7.3.2). Industry best-practice should be followed in terms of using up-to-date protocols.

The simplest approach is for the LEA side to send an HTTP request and the RPS to send the data in the HTTP response.

More complex scenarios include:

- Situations where the response is slower (i.e. takes more than a few seconds to create). For a slower response, the initial HTTP request is acknowledged but the details of the response are sent in a later HTTP message.
- Situations where multiple responses are required e.g. an update every minute for an hour. It would be possible to handle this (on a technical protocol level) as a request/response every minute, though the interface should make it clear that this is one request (with one authorization) which requires a number of sub-components to fulfil it.
- Situations involving a stream of continuous data. As stated in clause 5, this is not covered by the present document.

### 7.3.2 Delivery security details

It is recommended to use HTTPS.

It is recommended to reflect state of the art and industry best practice.

Consideration is needed regarding the sharing of certificates. Existing mechanisms for sharing trust can be used where it is assessed that they adequately mitigate the identified threats.

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## Annex A: Usage scenarios

### A.1 Overview

Annex A describes some scenarios which are relevant to LEA/RPS interfaces for vehicle-based data. The recommended approach (clause 7) is designed to be compatible with all these scenarios.

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### A.2 Extended vehicle databases

Extended Vehicle databases or (ExVe) have been standardized by ISO [i.3] and have industry recognition. The underlying principle is that there is a database which is separate from the vehicle but which contains information about the vehicle. The principle is that it is secure, safe, auditable and efficient to query the ExVe database, which may not always be the case when querying the vehicle directly. Based on the experience gained with Lawful Interception and Lawful Disclosure, ETSI TC LI is familiar with the concept of data stores or data brokers which are independent of the device. It is not the case that all law enforcement requirements could be met by going only to an Extended Vehicle Database (rather than the vehicle itself). It is noted that not all relevant data will have necessarily been transmitted towards an external database. For example, Digital Forensics Policing rely on getting information directly from the vehicle. However, ETSI TC LI notes there are many advantages to using separate databases.

This clause is not proposing that LEA systems are connected directly to an ExVe database. The RPS would typically check various aspects of the request before passing the request on (where appropriate) to the ExVe database. There may still be benefit in the LEA-RPS interface using similar techniques to ExVe, to make the questions easier to process using an ExVe database.

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### A.3 European Production Order

It is highlighted that the EU e-Evidence European Production Order [i.6] specification includes a time limit of 6 hours for responding to requests. The approach (clause 7) would be suitable for meeting this criteria, and potentially other criteria from the European Production Order.

---

### A.4 Autonomous Vehicles

Most recent legislations, at the time of publication of the present document, are increasingly explicit and specific with regard to automated vehicles to provide certain information (to Police and insurers) about where responsibility lies in the event of an incident. Legislation can require the time and place to be logged where an automated vehicle took control of driving, and also where control was handed back to the human driver. This is essential in tracking liability. This could be relevant in two ways: firstly, to see whether the same systems or protocols could be used for this information as for other LEA requirements; secondly, to look at the sorts of data sets that are needed in the two different scenarios and look at the area of overlap.

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### A.5 EU C-ITS WG6

The objective of the EU's Cooperative Intelligent Transport Systems (C-ITS) Strategy is to facilitate the convergence of investments and regulatory frameworks across the EU, in order to see deployment of mature C-ITS services. Beside many other aspects there was a concept and further details discussed for a C-ITS Deployment Platform. As part of this, the EU C-ITS Working Group 6 provided a report which defines general terms, relations between entities and datasets for access to in-vehicle data and resources. As many stakeholders from the automotive/mobility sector were involved, it would be good to benefit from the result of that work to increase the acceptance from industry.

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## A.6 Stolen vehicle recovery

It is beneficial to the manufacturer, owner, insurer and LEAs that stolen vehicles can be recovered quickly. Systems are being developed that allow manufacturers, or other industry, to determine the location of a vehicle and, where appropriate, send this to an LEA. From a legal perspective, this is different from the typical scenario in the present document, because locating a stolen vehicle is done with the owner's knowledge and consent. In terms of an efficient technical solution, it could be worthwhile to use similar techniques in all situations where industry is sending information to LEAs, provided care is taken to make the necessary distinctions to prevent confusion and ensure all relevant safeguards and checks are met.

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## A.7 Cross-border aspects

The interface in the present document is designed to be used in a cross-border situation (as well as within a country). The present document does not comment on whether or not requests and responses should take place cross-border (that is a legal matter and is out of scope of the present document). But the present document is designed to support a situation in which the requesting LEA and the responding RPS are in different countries.

The critical point is to make sure that everyone is using the same standard, i.e. that there is no translation or mapping of information as it moves from the RPS to the LEA system. It is possible that the transportation of data needs to involve a number of steps (it is a legal matter to determine whether there are any intermediate parties between the LEA and the RPS). However, even if there are intermediate steps or systems, the critical point is for everyone to use an identical standard and definitions on each step of the path. This reduces the potential for misunderstandings which can cause major problems when material is presented in evidence.

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## Annex B: Example of VIN-to-IMEI use case

The following parameters show an example of the VIN-to-IMEI use case.

Requesting Agency: This\_LEA  
Responding Organisation: This\_OEM  
Date and time of request: 2021-09-07T-15:50:51-04:00  
Request ID: GB2548594831  
Authorisation: <<A PDF or other authorisation could be supplied (this would not necessary in all jurisdictions. In additional, there could be details separately (e.g. in XML) of the name, role, organisation of the approver(s), the date it was approved etc.>>  
Type of request: VIN-to-IMEI  
Request parameters - VIN: <<The VIN would be specified here, in accordance with ISO 3779>>

Response would be sent as XML over the same HTTPS connection (or, if a new one needs to be started, the LEA and RPS sides would exchange certificates as above).  
Requesting Agency: This\_LEA  
Responding Organisation: This\_OEM  
Date and time of response: 2021-09-07T-15:52:40-04:00  
Request ID: GB2548594831  
Type of request: VIN-to-IMEI  
Response parameter - IMEI: <<The relevant IMEI(s) would be specified here>>

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## Annex C: Change History

<b>Status of Technical Report ETSI TR 103 854 LEA support services; Interfaces for Lawful Disclosure of vehicle-related data: scenarios, examples and recommendations</b>		
<b>TC LI approval date</b>	<b>Version</b>	<b>Remarks</b>
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## History

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