
**Intelligent transport systems —
Framework for cooperative telematics
applications for regulated vehicles
(TARV) —**

**Part 17:
Consignment and location monitoring**

*Systèmes intelligents de transport — Cadre pour applications
télématiques coopératives pour véhicules réglementés (TARV) —*

Partie 17: Monitorage de livraison et localisation

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 204, *Intelligent transport systems*.

This first edition cancels and replaces ISO/TS 15638-17:2013.

ISO 15638 consists of the following parts, under the general title *Intelligent transport systems — Framework for cooperative telematics applications for regulated vehicles (TARV)*:

- *Part 1: Framework and architecture*
- *Part 2: Common platform parameters using CALM*
- *Part 3: Operating requirements, "Approval Authority" approval procedures, and enforcement provisions for the providers of regulated services*
- *Part 5: Generic vehicle information*
- *Part 6: Regulated applications*
- *Part 7: Other applications*
- *Part 8: Vehicle access management and monitoring (VAM)*
- *Part 9: Remote electronic tachograph monitoring (RTM)*
- *Part 10: Emergency messaging system/eCall (EMS)*
- *Part 11: Driver work records (work and rest hours compliance) (DWR)*
- *Part 12: Vehicle mass monitoring (VMM)*
- *Part 14: Vehicle access control (VAC)*
- *Part 15: Vehicle location monitoring (VLM)*
- *Part 16: Vehicle speed monitoring (VSM)*

- *Part 17: Consignment and location monitoring (CLM)*
- *Part 18: ADR (Dangerous Goods) transport monitoring (ADR)*
- *Part 19: Vehicle parking facilities (VPF)*

The following documents are under preparation:

- *Part 4: System security requirements*
- *Part 13: 'Mass' information for jurisdictional control and enforcement*

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Introduction

Many ITS technologies have been embraced by commercial transport *operators* (4.35) and freight owners, in the areas of fleet management, safety, and security. *Telematics* (4.46) applications have also been developed for governmental use. Such regulatory services in use or being considered vary from *jurisdiction* (4.30) to jurisdiction, but include electronic on-board recorders, digital *tachograph* (4.45), on-board *mass* (4.33) monitoring, “mass” data for regulatory control and management (4.34), vehicle *access* (4.1) methods, hazardous goods (4.26) tracking and *e-call* (4.21). Additional applications with a regulatory impact being developed include, fatigue management, speed monitoring, and heavy vehicle penalties imposed based on location, distance, and time.

In such an emerging environment of regulatory and *commercial applications* (4.13), it is timely to consider an overall *architecture* (4.9) (business and functional) that could support these functions from a single platform within a commercial freight vehicle that operate within such regulations. International Standards will allow for a speedy development and *specification* (4.44) of new applications that build upon the functionality of a generic specification platform. A suite of International Standards deliverables is required to describe and define the *framework* (4.24) and requirements so that the on-board equipment and back office systems can be commercially designed in an open market to meet common requirements of jurisdictions.

This suite of International Standards addresses and defines the framework for a range of cooperative *telematics* (4.46) applications for *regulated commercial freight vehicles* (4.39) [such as, *access methods* (4.1), driver fatigue management, speed monitoring, on-board mass, “mass” data for regulatory control, and management]. The overall scope includes the concept of operation, legal and regulatory issues, and the generic cooperative provision of services to *regulated commercial freight vehicles*, using an on-board ITS platform. The framework is based on a (multiple) *service provider* (4.42) oriented approach with provisions for the *approval* (4.6) and *auditing* (4.10) of service providers.

This International Standard will

- provide the basis for future development of cooperative telematics-based ITS *service* (4.28) applications for regulated commercial freight vehicles. Many elements to accomplish this are already available. Existing relevant International Standards will be referenced, and the specifications will use existing International Standards (such as CALM) wherever practicable,
- allow for a powerful platform for highly cost-effective delivery of a range of telematics applications for regulated vehicles,
- provide a business architecture based on a (multiple) service provider oriented approach, and
- address legal and regulatory aspects for the approval and *auditing* (4.10) of service providers.

This suite of International Standards deliverables is timely as many governments (Europe, North America, Asia, and Australia/New Zealand) are considering the use of telematics for a range of regulatory purposes. Ensuring that a single in-vehicle platform can deliver a range of services to both government and industry through open standards and competitive markets is a strategic objective.

This part of ISO 15638 provides specifications for consignment and location monitoring.

NOTE 1 The definition of what comprises a “regulated” vehicle is regarded as an issue for national decision, and can vary from jurisdiction to jurisdiction. This suite of International Standards deliverables does not impose any requirements on nations in respect of how they define a regulated vehicle.

NOTE 2 The definition of what comprises a “regulated” service is regarded as an issue for national decision, and can vary from jurisdiction to jurisdiction. This suite of International Standards deliverables does not impose any requirements on nations in respect of which services for regulated vehicles *jurisdictions* will require, or support as an option, but will provide standardized sets of requirements descriptions for identified services to enable consistent and cost-efficient implementations where implemented.

Intelligent transport systems — Framework for cooperative telematics applications for regulated vehicles (TARV) —

Part 17: Consignment and location monitoring

1 Scope

This part of ISO 15638 addresses the provision of “consignment and location monitoring” and specifies the form and content of such data required to support such systems, and *access methods* (4.1) to that data.

The scope of this part of ISO 15638 is to provide *specifications* (4.44) for common communications and data exchange aspects of the *application service* (4.3) consignment and location monitoring that a *regulator* (4.30) can elect to require or support as an option, including

- a) high level definition of the service that a *service provider* (4.42) has to provide, (The service definition describes common service elements; but does not define the detail of how such an *application service* (4.3) is instantiated, not the acceptable value ranges of the data concepts defined),
- b) means to realize the service, and
- c) application data, naming content, and quality that an *IVS* (4.27) has to deliver.

The definition of what comprises a “regulated” service is regarded as an issue for National decision, and may vary from *jurisdiction* (4.30) to *jurisdiction*. This International Standard does not impose any requirements on nations in respect of which services for *regulated vehicles jurisdictions* will require, or support as an option, but provides standardised sets of requirements descriptions for identified services to enable consistent and cost efficient implementations where instantiated.

This International Standard has been developed for use in the context of regulated commercial freight vehicles [hereinafter referred to as “regulated vehicles” (4.39)]. There is nothing however to prevent a jurisdiction extending or adapting the scope to include other types of regulated vehicles, as it deems appropriate.

2 Conformance

Requirements to demonstrate conformance to any of the general provisions or specific *application services* (4.3) described in this part of ISO 15638 shall be within the regulations imposed by the *jurisdiction* (4.30) where they are instantiated. Conformance requirements to meet the provisions of this International Standard are therefore deemed to be under the control of, and to the specification of, the *jurisdiction* where the *application service(s)* is/are instantiated.

The protocols defined in this Part of ISO 15638 have been independently tested. [Annex B](#) (Informative) provides results of these tests. In any conformance assurance process undertaken by candidate systems, where appropriate the results can be used as part of its process of conformance compliance.

3 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 15638-1, *Intelligent transport systems — Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) — Part 1: Framework and architecture*

ISO 15638-2, *Intelligent transport systems — Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) — Part 2: Common platform parameters using CALM*

ISO 15638-3, *Intelligent transport systems — Framework for collaborative telematics applications for regulated commercial freight vehicles (TARV) — Part 3: Operating requirements, 'Approval Authority' procedures, and enforcement provisions for the providers of regulated services*

ISO 15638-4:—¹⁾, *Intelligent transport systems — Framework for cooperative telematics applications for regulated vehicles (TARV) — System security requirements (in development)*

ISO 15638-5, *Intelligent transport systems — Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) — Part 5: Generic vehicle information*

ISO 15638-6, *Intelligent transport systems — Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) — Part 6: Regulated applications*

ISO 15638-15, *Intelligent transport systems — Framework for cooperative telematics applications for regulated vehicles (TARV) — Part 15: Vehicle location monitoring*

ISO/TS 15638-18, *Intelligent transport systems — Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) — Part 18: ADR (Dangerous Goods) transport monitoring (ADR)*

ISO 26683-1, *Intelligent transport systems — Freight land conveyance content identification and communication — Part 1: Context, architecture and referenced standards*

ISO 26683-2, *Intelligent transport systems — Freight land conveyance content identification and communication — Part 2: Application interface profiles*

4 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 15638-1 and the following apply.

4.1 access methods

procedures and protocols to provision and retrieve data

4.2 app

small (usually) JavaTM applets, organized as software bundles, that support *application services* (4.3) by keeping the *data pantry* (4.18) provisioned with up to date data

4.3 application service

service provided by a *service provider* (4.42) enabled by accessing data from the *IVS* (4.27) of a *regulated vehicle* (4.39) via a wireless communications network

1) To be published.

2) This information is given for the convenience of users of this document and does not constitute an endorsement by ISO.

4.4**application service provider****ASP**

party that provides an *application service* (4.3)

4.5**app library**

separately secure area of memory in *IVS* (4.27) where apps are stored, with different access controls to *data pantry* (4.18) of the *IVS*

4.6**approval**

formal affirmation that an applicant has satisfied all the requirements for appointment as an *application service provider* (4.4) or that an application service delivers the required service levels

4.7**approval agreement**

written agreement made between an *approval authority (regulatory)* (4.8) and a *service provider* (4.42)

Note 1 to entry: An *approval authority (regulatory)* (4.8) approval agreement recognizes the fact that a service provider (4.42), having satisfied the approval authority's requirements for appointment as a service provider, is appointed in that capacity, and sets out the legal obligations of the parties with respect to the on-going role of the service provider

4.8**approval authority (regulatory)**

organization (usually independent) which conducts *approval* (4.6) and on-going *audit* (4.10) for *service providers* (4.42) on behalf of a *jurisdiction* (4.30)

4.9**architecture**

formalized description of the design of the structure of TARV and its *framework* (4.24)

4.10**audit/auditing**

review of a party's capacity to meet, or continue to meet, the initial and on-going *approval agreements* (4.7) as a *service provider* (4.42)

4.11**basic vehicle data**

data that shall be maintained/provided by all *IVS* (4.27) regardless of *jurisdiction* (4.30)

4.12**communications access for land mobiles****CALM**

layered solution that enables continuous or quasi continuous communications between vehicles and the infrastructure, or between vehicles, using such (multiple) wireless telecommunications media that are available in any particular location, and which have the ability to migrate to a different available media where required and where media selection is at the discretion of *user* (4.47) determined parameters by using a suite of International Standards based on ISO 21217 (CALM architecture) and ISO 21210 (CALM networking) that provide a common platform for a number of standardized media using *ITS-stations* (4.29) to provide wireless support for applications, such that the application is independent of any particular wireless medium

4.13**commercial application(s)**

ITS applications in *regulated vehicles* (4.39) for commercial (non-regulated) purposes

EXAMPLE asset tracking, vehicle and engine monitoring, cargo security, driver management, etc.

4.14

consignment

shipment of goods/cargo to a destination

4.15

cooperative ITS

C-ITS

ITS applications for both regulatory and commercial purposes that require the exchange of data between uncontracted parties using multiple *ITS-stations* (4.29) communicating with each other and sharing data with other parties with whom they have no direct contractual relationship to provide one or more *ITS services* (4.28)

4.16

core data

basic vehicle data (4.11) plus any additional data required to provide an implemented *regulated application service* (4.38)

4.17

dangerous goods

substances or articles which are potentially hazardous (for example, poisonous to humans, harmful to the environment, explosive, flammable, or radioactive) that require regulatory control when transported

4.18

data pantry

secure area of memory in *IVS* (4.27) where data values are stored, with different access controls to *app library* (4.5)

4.19

driver

person driving the *regulated vehicle* at any specific point in time

4.20

driver work records

DWR

collection, collation, and transfer of *driver* (4.19) work and rest hours data from an *in-vehicle system* (4.27) to an *application service provider* (4.4)

4.21

eCall

specialized instantiation of an *EMS* (4.22) that provides incident messaging and communication with a public service assistance point via priority wireless telephone communications using its emergency call capabilities

4.22

emergency message system

EMS

collection, collation, and transfer of emergency message data from an *in-vehicle system* (4.27) to an *application service provider* (4.4)

4.23

facilities

layer that sits on top of the communication stack and helps to provide data interoperability and reuse, and to manage applications and enable dynamic real time loading of new applications

4.24

framework

particular set of beliefs, ideas referred to in order to describe a scenario or solve a problem

4.25**global navigation satellite system****GNSS**

comprises several networks of satellites that transmit radio signals containing time and distance data that can be picked up by a receiver, allowing the user to identify the location of its receiver anywhere around the globe

4.26**hazardous goods/HAZMAT**

see *dangerous goods* (4.31)/*Accord européen relatif au transport international des marchandises Dangereuses par Route* (ADR) (4.6)

4.27**in-vehicle system****IVS**

ITS-station (4.29) and connected equipment on board a vehicle

4.28**ITS service**

communication functionality offered by an *ITS-station* (4.29) to an *ITS-station* application

4.29**ITS-station****ITS-s**

entity in a communication network, comprised of application, *facilities* (4.23), networking and access layer components specified in ISO 21217 that operate within a bounded secure management domain

4.30**jurisdiction****regulator**

government, road or traffic authority which owns the regulatory applications (4.37)

EXAMPLE country, state, city council, road authority, government department (customs, treasury, transport), etc.

4.31**local data tree****LDT**

frequently updated data concept stored in the on-board *data pantry* (4.18) containing a collection of data values deemed essential for either a) *TARV regulated application service* (4.38), or b) *cooperative intelligent transport systems* (4.15)

4.32**map**

spatial dataset that defines the road system

4.33**mass**

mass of a given heavy vehicle as measured by equipment affixed to the *regulated vehicle* (4.39)

4.34**“mass” information for jurisdictional control and enforcement****MICE/MRC**

collection, collation, and transfer of *vehicle mass* (4.33) data from an *in-vehicle system* (4.27) to an *application service provider* (4.4) to enable data provision to *jurisdictions* (4.30) for the control and management of equipped vehicles based on the mass of the *regulated vehicle* (4.39), or use of such data to enable compliance with the provisions of regulations.

4.35**operator**

fleet manager of a *regulated vehicle*

4.36

prime service provider

service provider (4.42) who is the first contractor to provide *regulated application services* (4.38) to the *regulated vehicle* (4.39), or a nominated successor on termination of that initial contract; the *prime service provider* (4.36) is also responsible to maintain the installed *IVS* (4.27); if the *IVS* was not installed during the manufacture of the vehicle the *prime service provider* (4.36) is also responsible to install and commission the *IVS* (4.27)

4.37

regulated/regulatory application

application arrangement using *TARV* utilised by *jurisdictions* (4.30) for granting certain categories of commercial vehicles rights to operate in regulated circumstances subject to certain conditions, or indeed to permit a vehicle to operate within the *jurisdiction*; can be mandatory or voluntary at the discretion of the *jurisdiction*

4.38

regulated application service

TARV application service to meet the requirements of a regulated application that is mandated by a regulation imposed by a *jurisdiction* (4.30), or is an option supported by a *jurisdiction*

4.39

regulated commercial freight vehicle/regulated vehicle

vehicle that is subject to regulations determined by the *jurisdiction* (4.30) as to its use on the road system of the *jurisdiction* in regulated circumstances, subject to certain conditions, and in compliance with specific regulations for that class of regulated vehicle; at the option of *jurisdictions*; this might require the provision of information via *TARV* or provide the option to do so

4.41

remote tachograph monitoring

RTM

collection, collation, and transfer of data from an on-board electronic *tachograph* (4.45) system to an *application service provider* (4.4)

4.42

service provider

party which is approved by an *approval authority (regulatory)* (4.8) as suitable to provide regulated or commercial *ITS application services* (4.3)

4.43

session

wireless communication exchange between the *ITS-station* (4.29) of an *IVS* (4.27) and the *ITS-station* of its *application service provider* (4.4) to achieve data update, data provision, upload apps, or otherwise manage the provision of the *application service* (4.3), or a wireless communication provision of data to the *ITS-station* of an *IVS* (4.27) from any other *ITS-station*

4.44

specification

explicit and detailed description of the nature and functional requirements and minimum performance of equipment, service, or a combination of both

4.45

tachograph

sender unit mounted to a vehicle gearbox, a tachograph head and a digital driver card, which records the *regulated vehicle* (4.39) speed and the times at which it was driven and aspects of the *driver's* (4.19) activity selected from a choice of modes

4.46

telematics

use of wireless media to obtain and transmit (data) from a distant source

4.47**user**

individual or party that enrolls in and operates within a regulated or *commercial application* (4.13) *service* (4.3)

EXAMPLE *driver* (4.19), *transport operator* (4.35), freight owner, etc

4.48**vehicle access control****VAC**

control of regulated vehicles ingress to and egress from controlled areas and associated penalties and levies

4.49**vehicle access management****VAM**

monitoring and management of regulated vehicles approaching or within sensitive and controlled areas

4.50**vehicle location monitoring****VLM**

collection, collation, and transfer of vehicle location data from an *in-vehicle system* (4.27) to an *application service provider* (4.4)

4.51**vehicle mass monitoring****VMM**

collection, collation, and transfer of vehicle *mass* (4.33) data from an *in-vehicle system* (4.27) to an *application service provider* (4.4)

4.52**vehicle parking facility****VPF**

system for booking and *access* (4.1) to and egress from a *vehicle parking facility* (VPF)

4.53**vehicle speed monitoring****VSM**

collection, collation, and transfer of vehicle speed data from an *in-vehicle system* (4.27) to an *application service provider* (4.4)

5 Symbols (and abbreviated terms)

AA	<i>approval authority (regulatory)</i> (4.8)
ADR	<i>Accord Européen relatif au transport international des marchandises Dangereuses par Route</i> (4.6) [<i>dangerous goods</i> (4.17)]
app	<i>applet</i> (JAVAT ^{Ma} application or similar) (4.2)
ASP	<i>application service provider</i> (4.4)
CALM	<i>communications access for land mobiles</i> (4.12)
C-ITS	<i>cooperative intelligent transport systems</i> (4.15)
DLR	<i>driving licence reader</i>
Dr	<i>driver</i> (4.19)

GNSS	<i>global navigation satellite system</i> (4.25)
ID	identity
IP	Internet protocol
ITS-S	<i>ITS station</i> (4.29)
IVS	<i>in-vehicle system</i> (4.27)
J	<i>jurisdiction</i> (4.30)
Java™ ^a	object oriented open source operating language developed by SUN systems
LDT	<i>local data tree</i> (4.31)
Op	<i>operator</i> (4.35)
PSP	<i>prime service provider</i> (4.36)
RFID	radio frequency identification device
SE	service element
TARV	<i>telematics</i> (4.46) applications for <i>regulated vehicles</i> (4.39)
UTC	coordinated universal time
WORM	write once read many times

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6 General overview and framework requirements

ISO 15638-1 provided a *framework* ([4.24](#)) and *architecture* ([4.9](#)) for TARV. It provided a general description of the roles of the actors in *TARV* and their relationships.

To understand clearly the *TARV* framework, *architecture* ([4.9](#)) and detail and *specification* ([4.44](#)) of the roles of the actors involved, the reader is referred to ISO 15638-1.

ISO 15638-6 provides the core requirements for all regulated applications. To understand clearly the general context in to which the provision of this application service, the reader is referred to ISO 15638-6.

In order to be compliant with this part of ISO 15638, the overall architecture employed shall comply with ISO 15638-1.

In order to be compliant with this part of ISO 15638, the communications employed shall comply with ISO 15638-2.

In order to be compliant with this part of ISO 15638, the operating requirements employed shall comply with ISO 15638-3.

In order to be compliant with this part of ISO 15638, the security employed shall comply with ISO 15638-4:—³⁾.

In order to be compliant with this part of ISO 15638, the basic vehicle data shall comply with ISO 15638-5.

In order to be compliant with this part of ISO 15638, the generic conditions for this application service shall comply with ISO 15638-6.

3) To be published.

This International Standard has been developed for use in the context of regulated commercial freight vehicles. There is nothing however to prevent a jurisdiction extending or adapting the scope to include other types of regulated vehicles, as it deems appropriate.

7 Requirements for services using generic vehicle data

The means by which the access commands for generic vehicle information specified in ISO 15638-5 can be used to provide all or part of the data required in order to support a *regulated application service* (4.38) shall be as defined in ISO 15638-6.

8 Application services that require data in addition to basic vehicle data

8.1 General

Application services should be conducted as defined in ISO 15638-6.

8.2 Quality of service requirements

This part of ISO 15638 contains no general requirements concerning quality of service. Such aspects shall be determined by a *jurisdiction* (4.30) as part of its *specification* (4.44) for any particular *regulated application service* (4.38). However, where a specified *regulated application service* (4.38) has specific quality of service requirements essential to maintain interoperability, these aspects shall be as specified in [Clause 10](#).

8.3 Test requirements

This part of ISO 15638 contains no general requirements concerning test requirements. Such aspects shall be determined by a *jurisdiction* (4.30) as part of its *specification* (4.44) for any particular *regulated application service* (4.38), and issued as a formal test requirements *specification* (4.44) document. However, where a specified *regulated application service* (4.38) has specific test requirements essential to maintain interoperability, these aspects shall be as specified in [Clause 10](#) relating to this *regulated application service*, or in a separate standards deliverable referenced within that Clause. And where multiple *jurisdictions* recognize a benefit to common test procedures for a specific *regulated application service*, this shall be the subject of a separate standards deliverable.

8.4 Marking, labelling, and packaging

This part of ISO 15638 has no specific requirements for marking labelling or packaging.

However, where the privacy of an individual can be potentially or actually compromised by any instantiation based on this International Standard, the contracting parties shall make such risk explicitly known to the implementing *jurisdiction* (4.30) and shall abide by the privacy laws and regulations of the implementing *jurisdiction* and shall mark up or label any contracts specifically and explicitly drawing attention to any loss of privacy and precautions taken to protect privacy. Attention is drawn to ISO/TR 12859 in this respect.

9 Common features of regulated TARV application services

9.1 General

The details of the instantiation of *regulated application service* (4.38) are as designed by the application service system to meet the requirements of a particular *jurisdiction* (4.30) and are not defined herein. ISO 15638-6 specifies the generic roles and responsibilities of actors in the systems, and instantiations that claim compliance with this part of ISO 15638 shall also be compliant with the requirements of ISO 15638-6.