



**International
Standard**

ISO 14823-1

**Intelligent transport systems —
Graphic data dictionary —**

**Part 1:
Specification**

*Systèmes de transport intelligents — Dictionnaire de données
graphiques —*

Partie 1: Spécification

**First
edition
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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	3
5 Conformance	3
6 Requirements	3
7 Structure of pictogram code	4
7.1 General	4
7.2 Current and deprecated signs	4
7.3 Relative object identifier	5
7.4 Country code	5
7.5 Pictogram code and object identifier (OID) node information	6
8 Numbering of pictogram codes	8
8.1 General	8
8.2 Mnemonic of the pictogram code	8
8.3 Pictogram code (without country code) no. 11111 to no. 11999: Traffic sign pictograms (danger warning)	8
8.4 Pictogram code (without country code) no. 12111 to no. 12999: Traffic sign pictograms (regulatory)	15
8.5 Pictogram code (without country code) no. 13111 to no. 13992: Traffic sign pictograms (informative)	24
8.6 Pictogram code (without country code) no. 21111 to no. 21999: Public facilities pictograms (public facilities)	33
8.7 Pictogram code (without country code) no. 31111 to no. 31999: Ambient conditions pictograms (ambient condition)	35
8.8 Pictogram code (without country code) no. 32111 to no. 32999: Ambient conditions pictograms (road condition)	36
8.9 Pictogram code (without country code) no. 41111 to no. 41999: Supplementary panel pictograms	36
Annex A (normative) ASN.1 description of GDD (version 2)	42
Annex B (normative) Attributes of GDD (version 2)	43
Annex C (informative) UML diagram of GDD (version 2)	53
Annex D (normative) Specializations (version 2)	56
Annex E (normative) ASN.1 description of GDD (version 1)	58
Annex F (normative) Attributes of GDD (version 1)	59
Annex G (informative) UML diagram of GDD (version 1)	65
Annex H (normative) List of directions at diverging point	66
Annex I (informative) Example GDD data set for the United Nations (UN) and selected countries	70
Annex J (informative) Pictogram code and OID node information (version 1)	71
Bibliography	73

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 278, *Intelligent transport systems*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition cancels and replaces the first edition (ISO 14823:2017), which has been technically revised.

The main changes are as follows:

- the mechanism of "relative object identifier" has been specified (7.3);
- the inclusion of up to 4 pictograms in the graphic data dictionary (GDD) has been allowed;
- redundant pictogram codes have been deleted;
- new pictogram codes requested by certain countries have been added;
- new attributes to comply with new signs have been added;
- redundant attributes have been deleted;
- existing attributes have been changed to be more flexible and to be harmonized with existing International Standards.

A list of all parts in the ISO 14823 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

0.1 Design principle

This document specifies a graphic data dictionary (GDD) that has been developed with the intent of creating a common basis for transmitting encoded information for existing road traffic signs and pictograms. The coding system has been developed to be language-independent, such that data that can be interpreted, irrespective of language or regional differences. The GDD supports intelligent transport system (ITS) application such as in-vehicle signage or in-vehicle information.

This document supports:

- the efficient IT-centric encoding for ITS messaging to represent specific road traffic signs and pictograms, and
- the consistent decoding of encoded road traffic signs and pictogram data for display in ITS.

This document can support the translation of signs and pictograms with a similar purpose from the representation used in one country to the representation used in another country.

Existing road traffic signs and pictograms from various countries are listed in [Annex I](#).

0.2 Background of revision

The first edition of this document (ISO 14823:2017) used the country codes stipulated by ISO 3166-1 to distinguish the country where the GDD is provided and used the following numbering structure to identify the pictogram codes stipulated in [Clause 8](#).

- The two-digit category of the sign.
- The one-digit nature of the sign.
- The two-digit serial number of the sign.

However, this mechanism lacked a global identification of pictogram codes and a flexibility when adding new pictogram codes.

To cope with these issues, the present document, ISO 14823-1:2023, has been developed.

0.3 Backward compatibility

This document has been developed to be backward compatible with ISO 14823:2017 to assist in transitions from earlier implementations, while not hindering spreads of ISO 14823:2017 and being able to support many new features.

Specifically, the GDD allows the selection of two versions described in [7.1](#). The GDD allows the use of the ASN.1 description specified in [Annex A](#) or [Annex E](#), and allows the use of the attributes specified in [Annex B](#) or [Annex F](#).

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Intelligent transport systems — Graphic data dictionary —

Part 1: Specification

1 Scope

This document specifies a graphic data dictionary (GDD), a system of standardized codes for existing road traffic signs and pictograms used to deliver traffic and traveller information (TTI). The coding system can be used in the formation of messages within intelligent transport systems (ITS).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3166-1, *Codes for the representation of names of countries and their subdivisions — Part 1: Country code*

ISO 8601-1:2019, *Date and time — Representations for information interchange — Part 1: Basic rules*

ISO/IEC 8824-1, *Information technology — Abstract Syntax Notation One (ASN.1) — Part 1: Specification of basic notation*

ISO/IEC 8825-5:2021, *Information technology — ASN.1 encoding rules — Part 5: Mapping W3C XML schema definitions into ASN.1*

ISO/IEC 8859-1, *Information technology — 8-bit single-byte coded graphic character sets — Part 1: Latin alphabet No. 1*

ISO/IEC 19505-1, *Information technology — Object Management Group Unified Modeling Language (OMG UML) — Part 1: Infrastructure*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

attribute

coded information which can be associated to a *pictogram* (3.5) in order to clarify the meaning of the pictogram

3.2

country code

internationally recognized codes

Note 1 to entry: When referring to countries and subdivisions of countries, the description in ISO 3166-1:2020, 3.3 applies.

3.3

graphic data dictionary

catalogue of codes for *pictograms* (3.5) organized systematically

3.4

nature category number

number to identify the nature of the *pictogram category code* (3.7)

3.5

pictogram

graphic or icon on static signs or rendered on a display of an IT system, such as a monitor or a VMS pictogram display, to inform travellers of information such as road conditions, traffic elements, traffic regulations or public facilities

3.6

pictogram code

combination of a *service category code* (3.11) and a *pictogram category code* (3.7) optionally including a *country code* (3.2) in version 1

Note 1 to entry: See 7.1 for an explanation of "version 1".

3.7

pictogram category code

code assigned to a set of *pictograms* (3.5) conveying the same meaning for a given *service category code* (3.11)

3.8

qualifier

parameter for an *attribute* (3.1) used to express the meaning of *pictogram* (3.5) quantitatively

3.9

relative object identifier

value which identifies an object by its position relative to some known object identifier

[SOURCE: ISO/IEC 8824-1:2021, 3.8.63]

3.10

serial number

number to identify the *pictogram* (3.5) belonging to the nature category

3.11

service category code

code assigned to distinguish the service category such as a regulation or public facilities

3.12

specialization

relationship between a more general class (the parent) and a more specific class (the child) that is fully consistent with the general class and that adds additional information

[SOURCE: ISO/IEC 11179-3:2023, 3.1.8, modified — "<metamodel>" preceding the definition has been deleted. Notes to entry have been removed.]

4 Abbreviated terms

ASN.1	Abstract Syntax Notation One
C-ITS	cooperative intelligent transport systems
HGV	heavy goods vehicle
ITS	intelligent transport systems
IT	information technology
LPG	liquefied petroleum gas
OID	object identifier
UML	unified modeling language
UN	United Nations
VMS	variable message sign

5 Conformance

An implementation is conformant with this document when the following conditions are met.

- The implementation and transmission of graphic data shall conform to the requirements listed in this document.
- The pictogram code shall be selected from the categorized codes listed in this document.

6 Requirements

The intended usage of this document is to support the efficient IT-centric encoding for ITS messaging to represent specific road traffic signs and pictograms and the consistent decoding of encoded road traffic signs and pictogram data for display in ITS.

This document can support the translation of signs and pictograms with similar purpose from the representation used in one country to the representation used in another country. For illustrative purposes, it is foreseen that this document will be able to be used to encode information concerning a specific pictogram that is then embedded into other information to be exchanged; if needed, on receipt of this information, the receiver will be able to use the contents of this document to decode the information concerning the specific pictogram to support its display across a range of dissemination systems. Examples of these dissemination systems can include: traffic control centre system user interfaces, variable message signs (VMS), public access terminals, mobile personal information systems, and on-board units.

Requirements for ITS applications which utilize the GDD are as follows.

- Graphic data shall consist of a version number, relative object identifier or country code and optionally an attribute indicator.
- The pictogram code shall be decided based on [Table 1](#).
- The danger warning pictogram code shall be selected from [Table 3](#).
- The regulatory pictogram code shall be selected from [Table 4](#).
- The informative pictogram code shall be selected from [Table 5](#).
- The public facilities pictogram code shall be selected from [Table 6](#).

- The supplementary panel and additional panel pictogram code shall be selected from [Table 9](#).
- The integer value which indicates the direction shall be determined based on [Table B.3](#) or [Table F.3](#).
- If attribute indicator is on, graphic data shall include attributes listed in [Table B.1](#) or [Table F.1](#).
- When transmitting graphic data, it shall be coded based on the ASN.1 module specified in [Annex A](#) (version 2) or on the ASN.1 module specified in [Annex E](#) (version 1).

NOTE For transmission efficiency purposes, compression can be considered. This is outside the scope of this document.

7 Structure of pictogram code

7.1 General

The GDD provides a taxonomy of all registered sign types by assigning each sign type with a globally unique pictogram code. This pictogram code allows the meaning of virtually any sign used for surface transport to be adequately conveyed in a language-independent manner with a very short identifier coupled with optional attributes.

There are two "versions" available for determining the structure of the pictogram code.

The first version (referred to collectively as "version 1") uses the sequence of the country code (see [7.4](#)) and pictogram code (see [7.5](#)) as specified by the GDD structure in [Annex E](#).

Version 1 is expected to be used mainly when expanding or maintaining the existing C-ITS applications which presently use GDD (i.e. ISO 14823:2017).

The second version (referred to collectively as "version 2") uses the object identifier of the pictogram code by using the ASN.1 relative object identifier specified in [7.3](#). This mechanism has been introduced to cope with a global identification of pictogram codes and a flexibility when adding new pictogram codes.

Version 2 allows to the inclusion of up to 4 pictograms in the GDD.

In addition, some elements have been harmonized with DATEX II to be used in VMS signs.

It is up to each application or service to determine how to use these versions.

However, for reasons of facilitating implementations, it is recommended to avoid mixing versions in the same application or service.

Version 1 and version 2 are maintained independently by introducing the notion of "revision" in complement of the notion of "version". Both the version and the revision are identified in the object identifier (OID) that identifies the respective ASN.1 module.

Details of version 2 can be found in [Annexes A, B, C and D](#) while details of version 1 can be found in [Annexes E, F and G](#).

7.2 Current and deprecated signs

There are a number of signs in ISO 14823:2017 that are deprecated (no longer relevant or duplicated). Each pictogram code of the GDD in this document (ISO 14823-1:2023) is labelled "current" or "deprecated" together with a date of revision. Using this labelling enables legacy applications to continue to use these deprecated sign codes but signals to new users that it is wise to use only current labelled codes. To ensure backward compatibility, no code is reused, so that if a deprecated code is transmitted and the receiver does not recognize it, no action is taken. In the future it is possible that some codes might be set to "obsolete".

The following are examples of deprecated signs and reasons for deprecation.

- Signs listed in [Table 7](#) and [Table 8](#) have been deprecated and moved to [Table 3](#) as these signs should be used in dangerous situations.
- Signs listed in [Table 4](#) (from pictogram category no. 631 to no. 637) have been deprecated as these signs should be presented using attributes.
- Signs listed in [Table 4](#) (from pictogram category no. 365 to no. 368) have been deprecated as these signs are replaced by signs listed in [Table 4](#) (from pictogram category no. 361 to no. 364).

7.3 Relative object identifier

The international object identifier tree as defined in ISO/IEC 9834-1 is a tree whose root corresponds to this document and whose nodes correspond to Registration Authorities responsible for allocating arcs from a parent node.

The pictogram codes are registered on the international object identifier tree under the arc {joint-iso-tu-t(2) its(28) gdd(5) }. The first three sub-arcs follow the numbering structure:

- the two-digit service category of the sign,
- the one-digit nature category of the sign,
- the two-digit serial number of the sign.

The taxonomy specified by the GDD allows maximum interoperability among implementations that might differ in their level of support of GDD details. In other words, while the GDD has been designed to support numerous potential use cases that require various levels of detail and virtually all sign types that might be encountered within surface transport, the GDD has also been designed to accommodate applications (especially receiving applications) that might not support the full scope of the GDD. Specifically, the taxonomic structure of the GDD allows a sender to provide a very detailed pictogram code; if the receiver does not understand the complete taxonomic sequence, it should still be able to classify the sign under a parent category (or understand that it is safe to ignore).

For example, if a receiving application is notified of a sign with an object identifier of {joint(2) its(28) gdd(5) warning(11) warning3(3) wildAnimal(63) unspecified(0) au(36) kangaroo(x) }, it might be able to display the intended Australian-specific kangaroo crossing warning sign to the driver. Another application might generalize all object identifiers starting with {joint(2) its(28) gdd(5) warning(11) warning3(3) wildAnimal(63) } sign to a generic wild animal crossing sign. Another application might generalize all object identifiers starting with {joint(2) its(28) gdd(5) warning(11) } to be a generic warning sign. The level of detail supported by an application is dependent upon the purpose of the receiving application and is beyond the scope of the GDD.

To ensure that all signs described by the GDD are placed into this taxonomy, the GDD conveys the object identifier of the pictogram code by using the ASN.1 relative object identifier type with a root node of {joint(2) its(28) gdd(5) }. This allows a more efficient encoding of the object identifier while also ensuring that all codes can be generalized according to the specified taxonomy. This structure still allows for further regional specializations of the pictogram code specified within this standard according to the process specified [Annex D](#).

7.4 Country code

ISO 3166-1 shall be used to encode the countryCode in GddStructure.pictogramCode using two-letter codes in upper case in accordance with ISO/IEC 8859-1 encoding. For example, if the on-board unit has multiple countries' pictograms, it can render a pictogram on the display in accordance to each county code when the traveller is driving through adjacent countries.

If present, the component countryCode in GddStructure.pictogramCode (version 1) shall contain a two-letter country code that shall conform to ISO 3166-1, in upper case.

7.5 Pictogram code and object identifier (OID) node information

The structure of the pictogram code including the relative object identifier is presented in [Table 1](#). The service category has following four types of categories.

- 1) Traffic signs: are officially established pictograms in each country to control traffic using a warning, regulatory or informative sign.
- 2) Public facilities: indicate the existence of certain public facilities and their service details (e.g. toilets, restaurants, first aid facilities, etc.).
- 3) Ambient conditions: indicate weather condition on the road (e.g. rainfall, flood, fog, etc.) and road conditions (traffic congestion, accident, etc.) which can potentially affect the traffic flow.
- 4) Supplemental panels: are attached to the main signs to provide supplemental information using text or numbers.

NOTE Users of version 2 are encouraged to use attributes instead of supplemental panels where it is possible.

Each pictogram category code has a nature category number and a serial number.

Pictograms to be used for information display may vary from country to country, political jurisdiction to political jurisdiction, or system operator to system operator.

Pictogram codes and OID node information are described in [Annex J](#).

Table 1 — Pictogram code (for version 1 omitting country code) and relative object identifier

Pictogram code				Relative object identifier
Service category code		Pictogram category code		
Main category	Sub-category	Nature category number	Serial number	
trafficSign (1)	dangerWarning (1)	warning1 (1)	xx	{11 1 xx}
		warning2 (2)	xx	{11 2 xx}
		warning3 (3)	xx	{11 3 xx}
		warning4 (4)	xx	{11 4 xx}
		warning5 (5)	xx	{11 5 xx}
		warning6 (6)	xx	{11 6 xx}
		warning7 (7)	xx	{11 7 xx}
		warning8 (8)	xx	{11 8 xx}
		warning9 (9)	xx	{11 9 xx}
	regulatory (2)	priority1 (1)	xx	{12 1 xx}
		priority2 (2)	xx	{12 2 xx}
		priority3 (3)	xx	{12 3 xx}
		prohibitionOrRestriction (4)	xx	{12 4 xx}
		prohibitionOrRestriction (5)	xx	{12 5 xx}
		prohibitionOrRestriction (6)	xx	{12 6 xx}
		mandatory (7)	xx	{12 7 xx}
		mandatory (8)	xx	{12 8 xx}
		mandatory (9)	xx	{12 9 xx}
	Informative [3]	advanceDirection1 [1]	xx	{13 1 xx}
		advanceDirection1 [2]	xx	{13 2 xx}
		advanceDirection1 [3]	xx	{13 3 xx}
		Instruction [1]	xx	{13 4 xx}
		Notification [1]	xx	{13 5 xx}
		laneGuidance [1]	xx	{13 6 xx}
		alert	xx	{13 7 xx}
		roadOrPlaceIdentification1 [1]	xx	{13 8 xx}
		roadOrPlaceIdentification2 [2]	xx	{13 9 xx}
publicFacilities [2]	publicFacilities [1]	publicFacilitiesAndServices1 [1]	xx	{21 1 xx}
		publicFacilitiesAndServices1 [2]	xx	{21 2 xx}
ambientConditions [3]	ambientConditions [1]	ambientConditions1 [1]	xx	{31 1 xx}
		ambientConditions1 [2]	xx	{31 2 xx}
	roadConditions [1]	roadConditions [1]	xx	{32 1 xx}
supplementaryPanel [4]	supplementaryPanel [1]	supplementaryPanel [1]	xx	{41 1 xx}

An additional (or supplementary) panel is a device placed below (sometimes above) a road sign to make the meaning of the sign or symbol more explicit or to limit the application of the sign to certain periods. It can also be used to show the distance from the sign to the beginning of the dangerous section of road or of the zone to which the regulation applies, or to show the length of the dangerous section of road or of the zone to which the regulation applies.

If regulatory signs are to be restricted to certain road users or if certain road users are to be exempt from the regulation, this is done through the same device.

8 Numbering of pictogram codes

8.1 General

The GDD specifies the pictogram code and the rule for generating a mnemonic associated with each pictogram code.

In the following tables starting from 2 pictograms codes may also be given a country code in version 1 according to the specifications of this document.

The status of pictograms code is labelled "C" (=current) or "D" (=deprecated) in the following tables.

8.2 Mnemonic of the pictogram code

A mnemonic of the pictogram code can be generated by transforming each pictogram code name specified in the following subclauses in accordance with the following rules.

- In lower CamelCase notation
- The ASN.1 rules which shall be in accordance with ISO/IEC 8824-1 (e.g. no spaces, no parenthesis)
- No articles (the, a, an)

Table 2 — Examples of mnemonic

Pictogram code		Pictogram code name	Mnemonic
Service category code	Pictogram category code		
11	111	Intersection where the priority is prescribed by the general priority rule (Crossroads)	intersectionWherePriorityIsPrescribedByGeneralPriorityRuleCrossroads
	114	Forked (off to upper right) intersection where the priority is prescribed by the general priority rule	forkedOffToUpperRightIntersectionWherePriorityIsPrescribedByGeneralPriorityRule
	116	Intersection where the priority is prescribed by the general priority rule (T junction)	intersectionWherePriorityIsPrescribedByGeneralPriorityRuleTjunction

8.3 Pictogram code (without country code) no. 11111 to no. 11999: Traffic sign pictograms (danger warning)

Pictograms falling under this category shall be used to give the road users advance warning for an adverse road condition, any hazards to safe driving, or any other conditions for which they should take notice.

Table 3 — List of traffic sign pictograms (danger warning)

Pictogram code (with-out country code)		Pictogram code name	Definition	Status
Service category code	Pictogram category code			
11	111	Intersection where the priority is prescribed by the general priority rule (Crossroads)	Warning of the existence of a cross-shaped intersection ahead.	C
	112	Intersection where the priority is prescribed by the general priority rule (Side road right)	Warning of the existence of a side road ahead.	C
	113	Intersection where the priority is prescribed by the general priority rule (Side road left)	Warning of a side road ahead (reverse type of code no. 112).	C
	114	Forked (off to upper right) intersection where the priority is prescribed by the general priority rule	Warning of the existence of a side road. Fork (off to upper right) type of code no. 112.	C
	115	Forked (off to upper left) intersection where the priority is prescribed by the general priority rule	Warning of the existence of a side road. Fork (off to upper left) type of code no. 113.	C
	116	Intersection where the priority is prescribed by the general priority rule (T junction)	Warning of a T-shaped level junction at the end of the road	C
	117	Intersection where the priority is prescribed by the general priority rule (Y intersection)	Warning of a Y-shaped level intersection ahead.	C
	118	Intersection where the priority is prescribed by the general priority rule (Staggered intersection from left)	Warning of a staggered level intersection from left ahead.	C

Table 3 (continued)

Pictogram code (with-out country code)		Pictogram code name	Definition	Status
Service category code	Pictogram category code			
	119	Junction on bend ahead	Warning of a junction unseen on bend ahead.	C
	120	Intersection where the priority is prescribed by the general priority rule (Staggered intersection from right)	Warning of a staggered level intersection from right ahead.	C
	121~131	Reserved for future use		
	132	Intersection with a road, the users of which must give way	Warning of a priority road at intersection.	C
	133	Intersection with a road, the users of which must give way (T-shaped crossing left)	Warning of a priority road at T-shaped intersection where traffic joining from the left must give way.	C
	134	Intersection with a road the users of which must give way T-shaped crossing right	Warning of a priority road at T-shaped intersection where traffic joining from the right must give way.	C
	135	Intersection with a road, the users of which must give way. (T-shaped crossing of fork type lower left)	Warning of a priority road at T-shaped forked intersection where the joining traffic from the left must give way.	C
	136	Intersection with a road, the users of which must give way (T-shaped crossing of fork type lower right)	Warning of a priority road at reversed T-shaped forked intersection where the joining traffic from the right must give way.	C
	137~147	Reserved for future use		
	148	Warning of roundabout (Clockwise)	Warning of a clockwise roundabout ahead.	D
	149	Warning of roundabout	Warning of a roundabout ahead.	C
	150~160	Reserved for future use		

Table 3 (continued)

Pictogram code (with-out country code)		Pictogram code name	Definition	Status
Service category code	Pictogram category code			
	161	Bend to right	Warning of a dangerous single curve to the right ahead.	C
	162	Bend to left	Warning of a dangerous single curve to the left ahead.	C
	163~173	Reserved for future use		
	174	Right turn	Warning of a single sharp curve (turn) to the right. A turn is differentiated from a curve by combining all elements of speed, radius of curve, road rate of incline, intersection angle and visible distance.	C
	175	Left turn	Notice of a single sharp curve (turn) to the left. A turn is differentiated from a curve by combining all elements of speed, radius of curve, road rate of incline, intersection angle and visible distance.	C
	176~186	Reserved for future use		
	187	Reverse curve (right and left)	Warning of a combination of two curves (right and left) ahead (S-bend).	C
	188	Reverse curve (left and right)	Warning of a combination of two curves (left and right) ahead (S-bend).	C
	189~210	Reserved for future use		
	211	Double bend, first to right	Warning of dangerous double or multiple bends which start with a right curve.	C
	212	Double bend, first to left	Warning of dangerous double or multiple bends which start with a left curve.	C
	213~223	Reserved for future use		
	224	Winding road (first to the right)	Warning of a winding section, which starts with a right curve.	D
	225	Winding road (first to the left)	Warning of a winding section, which starts with a left curve.	D
	226~235	Reserved for future use		
	236	Level crossing with gate or barrier	Warning of the existence of a level railway crossing with gates or barrier ahead.	C
	237	Level crossing without gate or barrier	Warning of a level railroad crossing point without gate or barrier ahead.	C
	238	Intersection with a tramway line	Warning of an intersection with a tramway line ahead.	C
	239	School crossing ahead	Warning of an area where children can exit from a school or playground, frequently pass by and cross the road from the right side.	D
	240	Reserved for future use		
	241	Pedestrian crossing	Warning of an area where pedestrians frequently pass by and cross the road.	C

Table 3 (continued)

Pictogram code (with-out country code)		Pictogram code name	Definition	Status
Service category code	Pictogram category code			
	242	Vulnerable pedestrians likely to cross road ahead	Warning of an area where vulnerable pedestrians are likely to pass by and cross the road ahead.	C
	243	Reserved for future use		
	244	Children	Warning of children.	C
	245	Pedestrians crossing	Warning of a crosswalk where pedestrians frequently pass by and cross the road.	D
	246	Pedestrian crossing ahead	Warning of a crosswalk where pedestrians frequently pass by and cross the road.	D
	247	Pedestrian crossing ahead	Warning of a crosswalk where pedestrians frequently pass by and cross the road.	C
	248	People on the road	Warning that people are on the road.	C
	249~252	Reserved for future use		
	253	Light signals	Warning of a section of road on which traffic is regulated by three-colour light signals, because road users would not expect such a section.	C
	254	Slippery road	Warning that the section of road ahead may be particularly slippery.	C
	255	Falling rocks	Warning of the possibility of falling rocks or the presence of fallen rocks on road surface.	C
	256	Loose gravel	Warning of a section of road on which gravel can be thrown up.	C
	257	Dangerous shoulders	Warning of a dangerous road shoulder.	C
	258	Falling rocks	Warning of the possibility of falling rocks or the presence of fallen rocks on road surface.	D
	259	Rainfall	Warning of rainfall.	C
	260	Reserved for future use		
	261	Slippery section of road ahead because of ice or snow	Warning of slippery section of road ahead because of ice or snow.	C
	262	Fog	Warning of fog.	C
	263	Reduced visibility – fog, rain or snow	Warning of reduced visibility – fog, rain or snow.	C
	264	Flood	Warning of flood.	C
	265~267	Reserved for future use		
	268	Uneven road	Warning of a bumpy section ahead that can hinder travelling at normal speeds.	C
	269	Uneven road (hump bridge)	Warning of a road humps or series of road humps on road surface ahead that can hinder travelling at normal speeds.	C

Table 3 (continued)

Pictogram code (with-out country code)		Pictogram code name	Definition	Status
Service category code	Pictogram category code			
	270	Reserved for future use		
	271	Uneven road (dip)	Warning of a section with a large single dip on road surface ahead that can hinder travelling at normal speeds.	C
	272~282	Reserved for future use		
	283	Traffic merging from the right	Warning of a merge of an inflow lane from the right into through traffic.	C
	284	Reserved for future use		
	285	Traffic merging from left	Warning of a merge of an inflow lane from the left into through traffic.	C
	286~295	Reserved for future use		
	296	Carriageway narrows from the right	Warning that the number of lanes is reduced from the right.	C
	297	Carriageway narrows from the left	Warning that the number of lanes is reduced from the left.	C
	298	Narrow lanes ahead	Warning of narrow lanes ahead.	C
	299~318	Reserved for future use		
	319	Carriageway narrows	Warning that the width of the carriageway is reduced.	C
	320~331	Reserved for future use		
	332	Two-way traffic	Warning of a section of road temporarily or permanently carrying two-way traffic on the same carriageway when, on the previous section, traffic was carried on a one-way road or on a road comprising several one-way traffic carriageways.	C
	333~345	Reserved for future use		
	346	Steep ascent	Warning that there is a steep hill upwards with the indicated rate of incline (%).	C
	347	Dangerous descent	Warning that there is a steep dangerous hill downwards with the indicated rate of incline (%).	C
	348	Road works	Warning that there is a section where work is in progress.	C
	349~360	Reserved for future use		
	361	Cross-wind	Warning of the possibility of sudden side wind that may hinder travelling at normal speeds.	C
	362	Airfield	Warning of the existence of low flying aircraft or sudden aircraft noise.	C

Table 3 (continued)

Pictogram code (with-out country code)		Pictogram code name	Definition	Status
Service category code	Pictogram category code			
	363	Wild animal crossing	Warning of the possibility of wild animals crossing the road.	C
	364	Domestic animal crossing	Warning of the possibility of domestic animal crossing the road.	C
	365	Cross-wind	Warning of the possibility of cross-wind.	D
	366	Airfield	Warning of a section of road likely to be flown over at low altitude by aircraft taking off from or landing on an airfield.	D
	367	Wild animal crossing	Warning of the possibility of wild animals, crossing from the left side.	D
	368	Domestic animal crossing	Warning of the possibility of domestic animal crossing.	D
	369-377	Reserved for future use		
	378	Swing bridge	Warning of an opening of swing bridge ahead.	C
	379	Road leads to quayside or river bank	Warning of a quayside or river bank ahead.	C
	380	Reserved for future use		C
	381	Cyclist entering or crossing	Warning of a cycle route.	C
	382	Cyclist entering or crossing	Warning of a cycle route.	D
	383~394	Reserved for future use		
	395	A crossing where drivers must give way to traffic on the road ahead	Warning of a crossing where drivers must give way to traffic on the road ahead	D
	396	Give way at specified distance ahead	Warning of a crossing where drivers must give way the right-of-way to the road at a specified distance ahead. A distance to the crossing from the sign is suffixed to this information.	D
	397	Warning for an automatically rising bollard	Warning of an automatically deployed bollard that can rise from the road surface.	C
	398	Warning for wrong-way driving	Warning that a wrong-way-driving vehicle is present on the road and can be encountered.	C
	399	Stop ahead	Warning of a crossing where drivers must stop ahead.	C
	400~410	Reserved for future use		
	411	Level-crossings position	Warning of an immediate vicinity of level-crossings.	D
	412	Level-crossings (horizontally long)	Warning of a horizontally long level-crossing ahead.	C

Table 3 (continued)

Pictogram code (with-out country code)		Pictogram code name	Definition	Status
Service category code	Pictogram category code			
	413	Level-crossings Two or more tracks	Warning of a vertically long level-crossing for two or more tracks ahead.	D
	414	Level-crossings Two or more tracks (horizontally long)	Warning of a horizontally long level-crossing for two or more tracks ahead.	C
	415	Additional signs at an approach to a level-crossing or swing bridge	Warning of an additional sign at an approach to a level-crossing or swing bridge.	D
	416~420	Reserved for future use		
	421	Traffic congestion	Warning of traffic congestion.	C
	422	Accident	Warning of accident.	C
	423	Vehicle on fire	Warning of vehicle on fire.	C
	424	Shed loads(s)	Warning of shed loads(s).	C
	425	Slow moving maintenance vehicle	Warning of slow-moving maintenance vehicle.	C
	426	Breakdown vehicle	Warning of broken-down vehicle.	C
	427	Tunnel closed	Warning that tunnel is closed.	C
	428	Danger of fire	Warning of danger of fire.	C
	429	Bridge closed	Warning of bridge closed	C
	430~997	Reserved for future use		
	998	Caution	Indicates auxiliary sign to alert.	C
	999	Other dangers	Warning of some possible danger. This sign is used in cases where no other warning signs are applicable.	C

8.4 Pictogram code (without country code) no. 12111 to no. 12999: Traffic sign pictograms (regulatory)

Pictograms falling under this category shall be used to inform the road users of special obligations, restrictions or prohibitions. They are subdivided into the following:

- a) priority signs (Pictogram category no. 111 to no. 399);
- b) prohibition or restriction signs (Pictogram category no. 411 to no. 699);
- c) mandatory signs (Pictogram category no. 711 to no. 999).

Table 4 — List of traffic sign pictograms (regulatory)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
12	111	Priority for oncoming traffic	Notice that drivers must give way to oncoming traffic on a narrow section ahead.	C
	112	STOP	Notice of a point on the road where progressing without stopping is prohibited.	C
	113	Stop specified distance ahead	Notice of a point of the road where progressing without stopping is prohibited at specified distance ahead. A distance to the crossing from the sign is suffixed to this information.	D
	114	Assigned lane for light vehicles or motorcycles	Notice that a certain lane has been assigned for the use of light vehicles and motorcycles.	C
	115	Assigned lane for truck	Notice that specific goods vehicles (trucks) must use this lane.	C
	116	Assigned lane on motorway for trailers	Notice that specific goods vehicles (trailers) must use this lane on the motorway.	C
	117	Give way	Notice of an intersection where drivers must give way to traffic on the road ahead.	C
	118	A crossing where drivers must give way to traffic on the road ahead	Notice of an intersection where drivers must give way to traffic on the road ahead.	D
	119	Priority over oncoming traffic	Notice that oncoming traffic must give way on a narrow section ahead.	C
	120~126	Reserved for future use		
	127	Assigned lane for trailers	Notice that vehicles with trailers must use this lane.	C
	128	Assigned lane for buses and cycles	Notice of assigned lane for buses and cycles.	C
	129	Exclusive lane for buses	Notice that a certain lane has been assigned for the exclusive use of buses.	C
	130	Reserved for future use		
	131	Priority lane for route buses and pedal cycles only	Notice that a certain lane has been assigned for the priority use of fixed-route buses and pedal cycles.	C
	132	Priority lane for route bus	Notice that a certain lane has been assigned for the priority use of fixed-route buses.	C
	133	Vehicles weighing over the displayed weight are not permitted	Notice that vehicles weighing over the displayed weight are not permitted.	C
	134	High occupancy vehicle lane	Notice that only high occupancy vehicles are permitted in this lane.	C
	135~153	Reserved for future use		
	154	Dual carriageway ahead	Notice of dual carriageway ahead.	C

Table 4 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	155	Turning restriction on a multi-lane approach to an intersection	Notice of layout ahead to facilitate lane selection.	C
	156	Stop line	Notice of the point to stop.	C
	157	Two-step right turn for mopeds	Notice that mopeds (under 50cc) must dismount for right turn.	C
	158	Do not make two-step right turn for mopeds	Notice that mopeds (under 50cc) are prohibited from making two-step right turn.	C
	159	Two-step left turn for mopeds	Notice that mopeds (under 50cc) must dismount for left turn.	C
	160	Do not make two-step left turn for mopeds	Notice that mopeds (under 50cc) are prohibited from making two-step left turn.	C
	161~175	Reserved for future use		
	176	Slow down	Notice that any vehicles must reduce their speed in this zone.	C
	177	Yield right of way	Notice that any vehicles must reduce their speed in this zone. A distance to the crossing from the sign is suffixed to this information.	D
	178	Priority road	Notice that drivers on this road have priority to go through a crossroads which they are approaching.	C
	179	End of priority	Notice of the end of priority road.	C
	180	Distance to end of priority	Notice of the end of priority with distance to it.	C
	181	Priority for oncoming traffic	Notice of priority for oncoming traffic.	D
	182~410	Reserved for future use		
	411	No entry for all vehicles, mopeds, cycles, pedestrians	Notice that all vehicles/mopeds, cycles/pedestrians are prohibited from entering the road.	C
	412	No entry	Notice that all vehicles are prohibited from entering the road.	C
	413	No entry into the designated direction of the road	Notice that motor vehicles are prohibited from entering in the designated direction of the road.	C
	414	No vehicles crossing (except for vehicles turning left to enter or exit a facility off the road)	Notice that vehicles crossing except for vehicles turning left are prohibited from entering or exit a facility off the road.	C
	415	Closed to all vehicles in both directions	Notice that all vehicles are prohibited from passing through the designated section of the road.	C
	416	No motor vehicles except solo motorcycles	Notice that motor vehicles except two wheeled motorcycles without a side-car are prohibited from passing through the designated section of the road.	C

Table 4 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	417	No entry for motorcycles	Notice that motorcycles are prohibited from passing through the designated section of the road.	C
	418	No entry for cycles	Notice that cycles are prohibited from passing through the designated section of the road.	C
	419	No entry for mopeds	Notice that mopeds are prohibited from passing through the designated section of the road.	C
	420	Reserved for future use		
	421	No entry for goods vehicles	Notice that goods vehicles are prohibited from passing through the designated section of the road.	C
	422	No entry for any power-driven vehicle drawing a trailer including a semi-trailer or a single axle trailer	Notice that motor vehicles with a trailer are prohibited from passing through the designated section of the road.	C
	423	No entry for pedestrians	Notice that pedestrians are prohibited from passing through the designated section of the road.	C
	424	No entry for animal-drawn vehicles	Notice that animal-drawn vehicles are prohibited from passing through the designated section of the road.	C
	425	No entry for handcarts.	Notice that handcarts or other vehicles without motors except bicycles are prohibited from passing through the designated section of the road.	C
	426	No entry for power-driven agricultural vehicles	Notice that power-driven agricultural motor vehicles are prohibited from passing through the designated section of the road.	C
	427	No entry for buses	Notice that buses are prohibited from passing through the designated section of the road.	C
	428	Reserved for future use		
	429	No entry for any power-driven vehicle drawing a trailer other than a semi-trailer or a single axle trailer	Notice that power-driven vehicles drawing a trailer other than a semi-trailer or a single axle trailer are prohibited from passing through the designated section of the road.	C
	430	Reserved for future use		
	431	No ridden or accompanied horses	Notice that horses, ridden or not, are prohibited from passing through the designated section of the road.	C
	432	Reserved for future use		C
	433	No agricultural vehicles	Notice that agricultural vehicles are prohibited from passing through the designated section of the road.	C

Table 4 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	434	No entry for any power-driven vehicle drawing a trailer	Notice that power-driven vehicles drawing any trailers are prohibited from passing through the designated section of the road.	C
	435	No entry for goods vehicles above the laden mass limit	Any goods vehicles with maximum permissible laden mass exceeding a weight limit are prohibited from passing through the designated section of the road.	C
	436~450	Reserved for future use		
	451	No entry for power-driven vehicles	Notice that motor vehicles whose classes are specified on the sign are prohibited from passing through the designated section of the road.	C
	452	No entry for power-driven vehicles or animal-drawn vehicles	Notice that motor or animal-drawn vehicles whose classes are specified on the sign are prohibited from passing through the designated section of the road.	C
	453	No entry for goods vehicles and buses	Notice that goods vehicles and buses are prohibited from passing through the designated section of the road.	C
	454	No entry for bicycles, mopeds and disabled drivers' vehicles	Notice that bicycles, mopeds and disabled drivers' vehicles are prohibited from passing through the designated section of the road.	C
	455	No entry for vehicles that are not able or allowed to go faster than specified speed; no microcars, bikes, mopeds and disabled drivers' vehicles	Notice that vehicles that are not able or allowed to go faster than specified speed, microcars, bikes, mopeds and disabled drivers' mobility vehicles are prohibited from passing through the designated section of the road.	C
	456~474	Reserved for future use		
	475	No entry for vehicles carrying more than a certain quantity of explosives or readily inflammable substances	Notice that motor vehicles carrying hazardous goods are prohibited from passing through the designated section of the road.	C
	476	No entry for vehicles carrying dangerous goods for which special sign plating is required	Notice that vehicles carrying dangerous goods for which special sign plating is required are prohibited from passing through the designated section of the road.	C
	477	No entry for vehicles carrying more than a certain quantity of substances liable to cause water pollution	Notice that vehicles carrying more than a certain quantity of substances liable to cause water pollution are prohibited from passing through the designated section of the road.	C
	478~498	Reserved for future use		

Table 4 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	499	No entry for vehicles having an over-all width exceeding specified width	Notice that motor vehicles with more than the specified width are prohibited from passing through the designated section of the road.	C
	500~510	Reserved for future use		
	511	No entry for vehicles having an over-all height exceeding specified height	Notice that motor vehicles with more than the specified height are prohibited from passing through the designated section of the road.	C
	512	No entry for vehicles exceeding specified weight	Notice that motor vehicles with more than the specified weight are prohibited from passing through the designated section of the road.	C
	513	No entry for vehicles having a weight exceeding specified axle weight on one axle	Notice that motor vehicles with more than the specified axle weight are prohibited from passing through the designated section of the road.	C
	514	No entry for vehicles or combinations of vehicles exceeding specified length	Notice that motor vehicles with more than the specified length are prohibited from passing through the designated section of the road.	C
	515	Driving of vehicles less than a specified distance apart prohibited	Notice that drivers must maintain the specified distance from the preceding vehicle when driving in the designated section of the road.	C
	516	Keep safe distance (specified)	Notice to keep a specified safe distance	C
	517	No entry for goods vehicles exceeding x meters in length	Notice that goods vehicles measuring more than a specified length are prohibited from passing through the designated section of the road.	C
	518~526	Reserved for future use		
	527	No left turns	Notice that motor vehicles are prohibited from turning left.	C
	528	No right turns	Notice that motor vehicles are prohibited from turning right.	C
	529	No U-turns	Notice that motor vehicles are prohibited from making U-turns.	C
	530~541	Reserved for future use		
	542	Overtaking prohibited	Notice that motor vehicles are prohibited from overtaking other vehicles.	C
	543~	Reserved for future use		C
	544	Overtaking by goods vehicles prohibited	Notice that goods vehicles are prohibited from overtaking,	C
	545~556	Reserved for future use		
	557	Maximum speed limited to the figure indicated	Notice that the maximum speed for motor vehicles is regulated.	C

Table 4 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	558	Use of audible warning devices prohibited	Notice that for motor vehicles it is prohibited from blowing the horn for warning when passing through the designated section of the road.	C
	559	Riding double is prohibited	Notice that riding double is prohibited.	C
	560	Reserved for future use		
	561	Passing without stopping prohibited (customs)	Notice of compulsory stop for customs check.	C
	562	Stop for (military police check)	Notice of compulsory stop for military police check.	C
	563	Stop for (police check)	Notice of compulsory stop for police check. Vehicles must not go beyond the sign displayed by a police officer or traffic warden.	C
	564	Stop for (toll gate)	Notice of compulsory stop for toll collection.	C
	565	Pedestrians crossover prohibited	Notice that pedestrians are prohibited from crossing the road.	D
	566	Lane closed	Notice of lane closure	C
	567~576	Reserved for future use		
	577	Parking prohibited	Notice that motor vehicles are prohibited from parking in the designated section of the road.	C
	578	Standing and parking prohibited	Notice that motor vehicles are prohibited from parking or stop still in the designated section of the road.	C
	579	Alternate parking (odd days)	Notice that motor vehicles are prohibited from parking on the corresponding side during odd days.	C
	580	Reserved for future use		
	581	Alternate parking (even days)	Notice that motor vehicles are prohibited from parking on the corresponding side during even days.	C
	582	Compulsory parallel parking	Notice of compulsory parallel parking.	C
	583	Compulsory diagonal parking	Notice of compulsory diagonal parking.	C
	584	Compulsory right-angle parking	Notice of compulsory right-angle parking.	C
	585	Alternate parking (first fortnight)	Notice that motor vehicles are prohibited from parking on the corresponding side during first fortnight of the month.	C
	586	Alternate parking (second fortnight)	Notice that motor vehicles are prohibited from parking on the corresponding side during second fortnight of the month.	C
	587~591	Reserved for future use		
	592	Emergency parking only	Notice that the use of parking area is permitted in case of emergency.	C

Table 4 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	593	Limited duration parking/loading zone	Notice that limited parking times and/or duration is applicable.	C
	594	No parking during a limited time	Notice of zone in which parking is prohibited during a limited time.	C
	595	Zone in which parking is prohibited	Notice of zone in which parking is prohibited.	C
	596	Zone in which parking is prohibited at certain times	Notice of zone in which parking is prohibited at certain times.	C
	597	End of zone in which parking is prohibited	Notice of end of zone in which parking is prohibited.	C
	598	End of zone in which parking is prohibited at certain times	Notice of end of zone in which parking is prohibited at certain times.	C
	599~610	Reserved for future use		
	611	End of all local prohibitions	Notice of the end of all local prohibitions.	C
	612	End of prohibition of overtaking	Notice of the end of prohibition of overtaking.	C
	613	End of prohibition of overtaking for goods vehicles	Notice of the end of prohibition of overtaking for goods vehicles.	C
	614	End of speed limit	Notice of the end of speed limit.	C
	615	End of compulsory minimum speed	Notice of the end of compulsory minimum speed.	C
	616	General speed limit	Notice of a general speed limit in force in a country or in a subdivision of that country.	C
	617	Dynamic speed limit is in operation	Notice that dynamic speed limit is in operation	C
	618	End of dynamic speed management	Notice of the end of dynamic speed management	C
	619~620	Reserved for future use		
	621	Driving on tram track permitted	Notice that vehicles can drive on tram track.	C
	622	Stopping permitted	Notice that stopping is permitted in the zone.	C
	623~630	Reserved for future use		C
	631	Distance to regulated road or of the zone	Notice of distance to regulated road or of the zone.	D
	632	Length of the regulated dangerous section of road or of the zone	Notice of length of the regulated dangerous section of road or of the zone.	D
	633	Prohibition begins at this point	Notice of prohibition begins at this point.	D
	634	Prohibition repeats at this point	Notice of prohibition repeats at this point.	D
	635	Prohibition ends at this point	Notice of prohibition ends at this point.	D
	636	Regulation for particular road users	Notice of regulation for particular road users.	D

Table 4 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	637	Regulation exception for a certain category of road users	Notice of regulation exception for a certain category of road users.	D
	638~710	Reserved for future use		
	711	Direction to be followed (left)	Travel to the left direction only.	C
	712	Direction to be followed (right)	Travel to the right direction only.	C
	713	Direction to be followed (straight ahead)	Travel straight ahead.	C
	714	Direction to be followed (right turn)	Right turn only.	C
	715	Direction to be followed (left turn)	Left turn only.	C
	716	Direction to be followed (right, straight)	Straight ahead or right turn only.	C
	717	Direction to be followed (left, straight)	Straight ahead or left turn only.	C
	718	Pass this side (right side)	Pass to the right.	C
	719	Pass this side (left side)	Pass to the left.	C
	720	Reserved for future use		
	721	Direction to be followed (both sides)	Right turn or left turn only.	C
	723	Pass this side (both sides)	Pass either side.	C
	724	Compulsory direction for vehicles carrying dangerous goods	Notice of compulsory direction for vehicles carrying dangerous goods.	C
	725	Form emergency corridor in case of traffic jam	Notice of emergency corridor in case of traffic jam.	C
	726~742	Reserved for future use		
	743	Direction to be followed (two-way traffic)	Notice of two-way traffic ahead.	C
	744	Direction to be followed (right) (one-way road)	Notice of one-way road to the right ahead.	C
	745	Direction to be followed (left) (one-way road)	Notice of one-way road to the left ahead.	C
	746	Compulsory roundabout (clockwise)	Notice of a clockwise roundabout ahead.	D
	747	Compulsory roundabout	Notice of a roundabout ahead.	C
	748	Road for motor vehicles only	Notice that the road from here is only for motor vehicles.	D
	749	Compulsory cycle track	Notice that the path or track is compulsory for cycles.	C
	750	Reserved for future use		
	751	Riding abreast permitted	Notice that riding abreast is permitted.	C
	752	Bicycle crossing zone	Notice of the zone where bicycles cross.	C
	753	Compulsory footpath	Notice that the path or track is compulsory for pedestrians.	C
	754	Compulsory track for riders on horseback	Notice that the path or track is compulsory for horseback riders.	C

Table 4 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	755	Compulsory honking	Notice that honking is compulsory.	C
	756~771	Reserved for future use		
	772	Pedestrian and bicycle crossing zone	Notice of the zone where pedestrians and bicycles cross.	C
	773	Compulsory cycle track and compulsory footpath	Notice that the path or track is only for pedestrians and cyclists.	C
	774~794	Reserved for future use		
	795	Compulsory minimum speed	Notice that the minimum speed of motor vehicles when travelling is regulated.	C
	796	Snow chains compulsory	Notice that motor vehicles to have snow chains fitted is mandated.	C
	797	End of requirement to use snow chains	Notice of end of the obligation to use snow chains.	C
	798-810	Reserved for future use		
	811	Distance plate indicating end of priority	Notice of distance plate indicating end of priority.	D
	812	Red traffic light	Representation of a red message sign	C
	813	Amber traffic light	Representation of an amber message sign.	C
	814	Green traffic light	Representation of a green message sign.	C
	815	Red and amber traffic light	Representation of a red and amber message sign	C
	816~999	Reserved for future use		C

8.5 Pictogram code (without country code) no. 13111 to no. 13992: Traffic sign pictograms (informative)

Pictograms falling under this category shall be used to inform, advise and guide the road users of a route, a line of demarcation between cities, towns, or villages, a direction and a distance to a destination or passing point, a travelling target toward a well-known point, etc. and to provide information which can be of great use when travelling. They are broadly subdivided into the following:

- advance direction signs (pictogram category no. 111 to no. 399);
- instruction signs (pictogram category no. 411 to no. 499);
- notification signs (pictogram category no. 511 to no. 599);
- lane guide signs (pictogram category no. 611 to no. 699);
- alert signs (pictogram category no. 711 to no. 799);
- road/place identification signs (pictogram category no. 811 to no. 992).

Table 5 — List of traffic sign pictograms (informative)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
13	111	Advance direction signs	Notice of direction(s) and destination(s) on the next junction with indications of the junction layout, place name(s) and the distance(s) from there, if any.	C
	112	Advance sign showing the direction of places	Notice of direction(s) and destination(s) on the next junction with indications of the junction layout, place name(s) and the distance(s) from there, if any.	C
	113~120	Reserved for future use		
	121	Advance direction signs (route to be followed)	Notice of direction(s) to be followed at a situation where a left (or right) turn at the next intersection is prohibited.	C
	122~132	Reserved for future use		
	133	Advance direction signs showing the road names	Notice of direction(s) and destination(s) on the next junction with indications of the junction layout, place name(s) and the distance(s) from there, if any.	C
	134~167	Reserved for future use		
	168	Motorway entrance	Notice of a motorway entrance. It may be accompanied with indications of the place name and/or a distance to the entrance from the present location.	C
	169	Advance signs showing the motorway with place name	Notice of a motorway exit with indications of the exit number, destination(s) connecting road number(s)/name(s) and/or distance(s) from there, if any.	C
	170	Reserved for future use		
	171	Advance direction signs showing the exit of motorway with road number	Notice of a motorway exit with indications of the exit number, destination(s), connecting road number(s)/name(s) and/or distance(s) from there, if any.	C
	172	Advance direction signs showing the exit of motorway	Notice of a motorway exit with indications of the exit number, destination(s) and/or distance(s) from there, if any.	C
	173	Advance signs showing the service area on motorway	Notice of a service area on motorway with indications of type of facility and a distance to the service area from the present location.	C
	174	End of motorway	Notice of end of motorway.	C
	175~183	Reserved for future use		
	184	Multiple destinations and distances	Notice of the destination information with indications of place name(s) and distance(s) to destination(s).	C
	185	Sign showing the direction of places	Notice of the destination information selectable at a junction with indications of place name(s) and distance(s) to destination(s).	C
	186	Sign showing the direction of places with road number	Notice of the destination information selectable at a junction with indications of road number(s) and distance(s) to destination(s).	C

Table 5 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	187	Sign showing the direction of places on the following road	Notice of the destination information on the following road with indications of place name(s) and distance(s) to destination(s).	C
	188	Sign showing the direction of places with junction layout	Notice of the destination information selectable at a junction with indications of the junction layout, place name(s) and distance(s) to destination(s).	C
	189	Sign showing the direction of places with road names	Notice of the destination information selectable at a junction with indications of place name(s) and distance(s) to destination(s).	C
	190~221	Reserved for future use		
	222	Direction signs showing the entrance of motorway	Notice of the direction of a motorway entrance with indication of the motorway name.	C
	223	Direction signs showing the exit of motorway with the place name	Notice of the direction of a motorway exit with indications of place name(s), road number(s) and exit number.	C
	224	Direction signs showing the exit of motorway	Notice of the direction of a motorway exit with indications of place name(s) and exit number.	C
	225	Signs assigning the lane for the place on the motorway	Notice of the destination of a lane to be taken.	C
	226	Signs showing a service area on motorway	Notice of the direction of a service area on the motorway with indication of the type of facility.	C
	227~325	Reserved for future use		
	326	National/state highway number	Notice of the road number of a national/inter-state highway.	C
	327	Local highway number	Notice of the road number of a local highway.	C
	328~410	Reserved for future use		
	411	Indication for signed diversion route	Notice of the indication for signed diversion route.	C
	412	Fasten children's seat belts	Notice to fasten children's seat belts.	C
	413	Fasten your seat belt	Notice to fasten your seat belt.	C
	414	Keep left	Notice to keep left.	C
	415	Keep right	Notice to keep right.	C
	416~510	Reserved for future use		
	511	Invitation to drivers to listen to radio station	Notice of invitation to drivers to listen to the radio station the frequency of which is displayed.	C
	512	Dynamic textual message used on a variable message sign when the appropriate sign is not available	Notice of the dynamic textual message used on a variable message sign when the appropriate sign is not available.	C
	513	Car park full	Notice that car park is full.	C
	514	Car park spaces available	Notice that car park spaces are available.	C
	515	Football match	Notice of football match.	C
	516~524	Reserved for future use		
	525	No through road (ahead)	Notice of dead-end of the road ahead.	C

Table 5 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	526	No through road (on connecting road)	Notice of dead-end of the connecting road at the next junction.	C
	527~537	Reserved for future use		
	538	Priority over oncoming traffic	Notice that the following direction has the right-of-way over oncoming traffic on narrow sections ahead.	D
	539	Access permitted for both sides	Notice that access for both sides is permitted.	C
	540~610	Reserved for future use		
	611	Number and direction of traffic lanes	Notice of number and direction of traffic lanes.	C
	612	Lane ends	Notice that the left lane ends at a point ahead.	C
	613	Lane divergence	Notice that the lane diverges at a point ahead.	C
	614	Trucks prohibited from this lane	Notice that trucks are prohibited from this lane.	C
	615	Trucks prohibited from main lanes	Notice that trucks are prohibited from main lanes.	C
	616	Trucks prohibited from diverging lane	Notice that trucks are prohibited from diverging lane.	C
	617	Advance direction sign for route to be followed	Notice of route to be followed.	C
	618	Detour	Notice of route detour ahead.	C
	619	Slow vehicle lane	The sign indicates the number and arrangement of lanes. The sign also indicates an additional lane on the motorway and motor vehicle road for motor vehicles with a slower speed according to national regulations.	C
	620	Reserved for future use		
	621	Escape lane (right type)	Notice of an escape lane right ahead.	C
	622	Escape lane (left type)	Notice of an escape lane left ahead.	C
	623	One-way street	Notice of one-way street ahead.	C
	624	Lane convergence	Notice of lane convergence ahead.	C
	625~632	Reserved for future use		
	633	Dynamic change of carriageway or trajectory	Notice of temporary change of roadway or trajectory.	C
	634	Dynamic lane allocation	Notice of temporary lane allocation.	C
	635	Allowed manoeuvres of the lane	Notice of allowed manoeuvres of the lane.	C
	636	Double exits to the left and to right	Notice of double exits to the left and to right.	C
	637	Double exits to the left	Notice of double exits to the left.	C
	638	Double exits to the right	Notice of double exits to the right	C
	639~642	Reserved for future use		
	643	Directional flows	Notice that directional flow is allowed ahead.	C
	644	Directional flows and lane convergence	Notice that lane converges and directional flow is allowed ahead.	C

Table 5 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	645	Hard shoulder running in operation	Notice of hard shoulder running in operation.	C
	646	Hard shoulder running not in operation	Notice of hard shoulder running not in operation.	C
	647	Hard shoulder running not in operation	Notice of hard shoulder running not in operation.	D
	648	Hard shoulder running being closed	Notice of hard shoulder running being closed.	C
	649	Hard shoulder running being closed	Notice of hard shoulder running being closed.	D
	650	Reserved for future use		
	651	Closure of traffic lane(s) and traffic merging	Notice of closure of traffic lane(s) and traffic merging. If it is not otherwise specified, it implies the closure of one or more lanes is on the right.	C
	652	Closure of a traffic lane, three lanes to two (right lane ends)	Notice of closure of a traffic lane, three lanes to two (right lane ends).	C
	653	Lane convergence, four lanes to three (right lane ends)	Notice of lane convergence, four lanes to three (right lane ends).	C
	654	Closure of a traffic lane, two lanes to one (left lane ends)	Notice of closure of a traffic lane, two lanes to one (left lane ends).	C
	655	Closure of a traffic lane, three lanes to two (left lane ends)	Notice of closure of a traffic lane, three lanes to two (left lane ends).	C
	656	Closure of a traffic lane, four lanes to three (left lane ends)	Notice of closure of a traffic lane, four lanes to three (left lane ends).	C
	657	Separation of lanes within the same carriageway (with width restriction)	Notice that two adjacent traffic lanes are separated. The right-hand lane moves to the right, but remains within the same carriageway with width restriction on right hand lane.	C
	658	Two lanes shifted to the right	Notice of two lanes shifted to the right.	C
	659	Lane closed	Notice of lane closure.	D
	660	Lane free	Notice that a lane is free.	C
	661	Clear lane to left or lane is merging to the left	Notice of clear lane to left.	C
	662	Clear lane to right or lane is merging to the right	Notice of clear lane to right.	C
	663	End of all restrictions by electronic signs	Notice of end of all restrictions by electronic signs.	C
	664	Compulsory minimum speed applying to different lanes	Notice that compulsory minimum speed is applied to different lanes.	C
	665	Compulsory minimum speed applying to one lane	Notice that compulsory minimum speed is applied to one lane.	C

Table 5 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	666	Max speed limits applying to different lanes	Notice that speed limit is applied to different lanes.	C
	667	Lanes reserved for buses	Notice that lanes are reserved for buses.	C
	668	One-way	Notice of one-way ahead.	C
	669	Preselection	Notice of preselection ahead.	C
	670	Clear lane at next junction (left)	Notice to exit lane at the next junction (left).	C
	671	Clear lane at next junction (right)	Notice to exit lane at the next junction (right).	C
	672	Two-lane left shift	Two lanes move to the left.	C
	673	Carriageway closure with deviation to one lane of the opposite carriageway	One lane shifts to the right opposing carriageway.	C
	674	Carriageway closure with deviation to one lane of the opposite carriageway	One lane shifts to the left opposing carriageway.	C
	675	Carriageway closure with deviation to two lanes of the opposite carriageway	Two lanes shift to the left opposing carriageway.	C
	676	Two-lane return back to the opposite carriageway.	Two lanes shift to the right opposing carriageway.	C
	677	Single lane right shift	The traffic lane shifts to the right.	C
	678	Single lane left shift	The traffic lane shifts to the left.	C
	679	Traffic partially deviated to opposite carriageway ahead	Notice of traffic partially deviated to opposite carriageway ahead	C
	680	Two or more lanes right shift	Notice that two or more lanes move to the right.	C
	681	Lane reserved for payment to a toll booth	Notice of lane reserved for payment to a toll booth (human operator).	C
	682	Lane reserved for payment by bank or credit card	Notice of lane reserved for payment by bank or credit card.	C
	683	Lane reserved for payment by coins	Notice of lane reserved for payment by coins.	C
	684	Lane reserved for payment by coins and banknotes	Notice of lane reserved for payment by coins and banknotes.	C
	685	Lane reserved for automatic payment by electronic toll subscription	Notice of lane reserved for automatic payment by electronic toll subscription.	C
	686	Closure of a traffic lane, three lanes to one (right and middle lane ends)	Notice of closure of a traffic lane, three lanes to one (right and middle lane ends).	C
	687	Closure of a traffic lane, three lanes to one (left and middle lane ends)	Notice of closure of a traffic lane, three lanes to one (left and middle lane ends).	C
	688	Three-lane right shift	Three lanes move to the right.	C

Table 5 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	689	Closure of a traffic lane and lane shift	Notice of closure of a traffic lane, three lanes to two (left lane ends, remaining lanes shift to the right).	C
	690	Narrowing of traffic lane	Notice of narrowing of outmost traffic lane	C
	691	Composite sign of the traffic regulation or warning downstream after the next exit	Notice of traffic regulation or warning downstream after the next exit.	C
	692	Composite sign of the traffic regulation or warning at the next exit	Notice of traffic regulation or warning at the next exit.	C
	693	Composite sign of the traffic regulation or warning downstream after the next two exits	Notice of traffic regulation or warning downstream after the next two exits.	C
	694	Composite sign of the traffic regulation or warning at exit after the next one	Notice of composite sign of the traffic regulation or warning at the exit after the next exit.	C
	695	Composite sign of the traffic regulation or warning at first exit out of several exits	Notice of traffic regulation or warning at first exit followed by a further exit.	C
	696	Closure of middle lane	Notice of closure of middle lane with shift of traffic to right and left lanes (3 to 2).	C
	697	Closure of middle lane	Notice of closure of middle lane with shift of traffic to left lane, right lane and hard shoulder (3 to 3).	C
	698	Lane guidance	Notice of two traffic lanes available for driving.	C
	699	Re-joining of lanes	Notice of lanes re-joining after separation. Right lane is going straight.	C
	700	Re-joining of lanes	Notice of lanes re-joining after separation. Left lane is changed back to the right carriageway.	C
	701~710	Reserved for future use		
	711	People on the road	Notice of people on the road.	C
	712	Fire	Notice of fire.	C
	713	Presence of smoke	Notice of smoke.	C
	714	Pollution or smog alert	Notice of pollution or smog alert.	C
	715	Speed cameras in action	Notice that speed camera is in action.	C
	716	Broken-down vehicle	Notice of broken-down vehicle	C
	717~810	Reserved for future use		
	811	Road for motor vehicles	Notice of road for motor vehicles.	C
	812	End of road for motor vehicles	Notice of end of road for motor vehicles.	C
	813	Tunnel	Notice of a tunnel ahead.	C
	814	End of tunnel	Notice of end of tunnel.	C
	815	Pedestrian crossing	Notice of a pedestrian crossing.	C
	816	Dynamic information on fuel dispensing station	Notice of dynamic information on fuel dispensing station.	C

Table 5 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	817	Fuel prices station delivering fuel and located off the motorway within a maximum radius of 10 km around the exits of the motorway	Notice of fuel prices station delivering fuel and located off the motorway within a maximum radius of 10 km around the exits of the motorway.	C
	818	Fuel price stations on the motorway	Notice of fuel price stations on the motorway.	C
	819~820	Reserved for future use		
	821	Safety evacuation area	Notice of a safety evacuation area.	C
	822	Emergency exit	Notice of an emergency exit.	C
	823	Fire extinguisher	Notice of a fire extinguisher.	C
	824	Emergency telephone	Notice of an emergency roadside telephone.	C
	825	Emergency call button	Notice of an emergency call button.	C
	826	Emergency stopping place	Notice of an emergency stopping place.	C
	827	Waiting area for slower traffic	Notice of a waiting area for slower traffic.	C
	828	Safety zone	Notice of a safety zone.	C
	829	Hospital	Notice of a hospital.	C
	830	Reserved for future use		
	831	Toll gate	Notice of a toll gate.	C
	832	Toll zone	Notice of a toll zone.	C
	833	Automatic toll gate	Notice of an automatic toll gate.	C
	834	Manual toll gate	Notice of a manual toll gate.	C
	835	Bicycle	Notice of a zone for bicycle.	C
	836	Airport	Notice of an airport.	C
	837	Airport departures	Notice of airport departure area.	C
	838	Airport arrivals	Notice of airport arrival area.	C
	839	Helicopter/heliport	Notice of heliport.	C
	840	Reserved for future use		C
	841	Railway/railway station	Notice of railway station.	C
	842	Reserved for future use		
	843	Rent a car	Notice of car rental facility.	C
	844	Taxi stop	Notice of taxi stop.	C
	845	Bus stop	Notice of bus stop.	C
	846	Tramway stop	Notice of tramway stop.	C
	847	Road open or closed	Notice of road open or closed.	C
	848~850	Reserved for future use		
	851	Parking	Notice of a parking area.	C
	852	Parking (machine-charged)	Notice of a machine-charged parking.	C
	853	Park-and-ride point	Notice of a park-and-ride point.	C
	854	Car ferry	Notice of a car ferry port.	C
	855	Car train	Notice of car train area.	C

Table 5 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	856	Parking space for vehicles with permission	Parking for permit holders only.	C
	857	Parking space for trucks		C
	858~860	Reserved for future use		
	861	Beginning of a built-up area	Notice of beginning of a built-up area.	C
	862	End of a built-up area	Notice of end of a built-up area.	C
	863~864	Reserved for future use		C
	865	Parking zone	Notice of a parking zone.	C
	866	Maximum speed zone	Notice of a maximum speed zone.	C
	867~868	Reserved for future use		
	869	End of parking zone	Notice of end of parking zone.	C
	870	Reserved for future use		C
	871	End of maximum speed zone	Notice of end of maximum speed zone.	C
	872	Residential area	Notice of a residential area.	C
	873	End of residential area	Notice of end of a residential area.	C
	874	End of advisory speed	Notice of end of advisory speed.	C
	875	Pre-announcement of checking goods vehicles and/or buses and coaches	Notice of checks of vehicles dedicated to the transport of goods or passengers.	C
	876	Announcement of checking goods vehicles and/or buses and coaches is on-going	Notice of checks of vehicles dedicated to the transport of goods or passengers.	C
	877~880	Reserved for future use		
	881	Direction of an airfield/airport	Notice of direction of an airfield/airport.	C
	882	Direction of a camping site.	Notice of direction of a camping site.	C
	883	Direction of a youth hostel	Notice of direction of a youth hostel.	C
	884	Direction of public transport	Notice of direction of public transport.	C
	885	Confirmatory signs	Notice of confirmatory signs.	C
	886	Chains or snow tyres recommended	Notice that chains or snow tyres are recommended.	C
	887	Advisory speed	Notice of advisory speed.	C
	889	Advised itinerary for heavy vehicles	Notice of an advised itinerary for heavy vehicles.	C
	890	Reserved for future use		
	891	Pedestrian overpass or underpass	Notice of a pedestrian overpass or underpass.	C
	892	Pedestrian overpass or underpass without steps	Notice of a pedestrian overpass or underpass without steps.	C
	893	Exit from a motorway	Notice of an exit from a motorway.	C

Table 5 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	894	Direction and distance of the nearest emergency exits	Notice of direction and distance of the nearest emergency exits.	C
	895	Parking space reserved for persons with a disability	Notice of a parking space reserved for person with a disability.	C
	896	Priority roads within an intersection	Notice of the intersection utilizing broad strokes that indicate priority roads over lower priority roads indicated by narrower strokes.	C
	897-990	Reserved for future use		
	991	Blank void		C
	992	Other		C

8.6 Pictogram code (without country code) no. 21111 to no. 21999: Public facilities pictograms (public facilities)

Pictograms falling under this category shall be used to inform the road users of a certain public facility and the service that it provides.

Table 6 — List of public facilities pictograms (public facilities)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
21	111	Tourist information	Indicates the existence/location of an information centre.	C
	112	Police	Indicates the existence/location of a police office.	C
	113	Facilities for wheelchair user	Indicates facilities for wheelchair users.	C
	114	Telephone	Indicates the existence/location of public telephone booths.	C
	115	First-aid station	Indicates the existence/location of a first-aid station.	C
	116	Hospital	Indicates the location of a hospital.	C
	117~124	Reserved for future use		
	125	Maintenance service	Indicates the existence/location of a maintenance service station.	C
	126	Breakdown service	Indicates the existence/location of a breakdown service station.	C
	127	Place to inflate a tyre	Indicates the place to inflate a tyre.	C
	128	Filling station	Indicates the existence/location of a filling station.	C
	129	Filling station [+ liquid petroleum gas (LPG)]	Indicates the existence/location of a filling station where LPG is available.	C
	130~144	Reserved for future use		

Table 6 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	145	Public lavatory	Indicates the existence/location of a public lavatory.	C
	146	Restroom for wheelchair user	Indicates the existence/location of a restroom for wheelchair user.	C
	147	Radio stations giving traffic information	Indicates the provision of a radio stations giving traffic information.	C
	148	Beach or swimming pool	Indicates the existence/location of a beach or swimming pool.	C
	149~160	Reserved for future use		
	161	Restaurant	Indicates the existence/location of a restaurant.	C
	162	Refreshment stand/cafe-teria	Indicates the existence/location of a refreshment stand or cafeteria.	C
	163	Service area	Indicates the existence/location of a service area (with no description of services provided).	C
	164	Postal office	Indicates the existence/location of a postal office.	C
	165~180	Reserved for future use		
	181	Hotel or motel	Indicates the existence/location of a hotel or motel.	C
	182	Hotel/motel for users with disability	Indicates that the hotel/motel is available for users with a disability.	C
	183	Youth hostel	Indicates the existence/location of a youth hostel.	C
	184	Youth hostel for users with disability	Indicates the youth hostel is available for users with a disability.	C
	185	Camping site	Indicates the existence/location of a camping site.	C
	186	Caravan site	Indicates the existence/location of a caravan site.	C
	187	Camping and caravan site	Indicates the existence/location of camping and caravan sites.	C
	188	Recreational vehicle sanitary station	Indicates the availability of facilities designed for the use of dumping wastes from recreational vehicle holding tank.	C
	189	Picnic site	Indicates the existence/location of a roadside picnic site.	C
	190	Reserved for future use		
	191	Playground for children	Indicates the existence/location of a playground for children.	C
	192	Starting-point for walks	Indicates the existence/location of a starting point for walking.	C
	193	Relaxation area	Indicates the existence/location of a relaxation area.	C
	194	Cross-country skiing site	Indicates the existence/location of a cross-country skiing site.	C

Table 6 (continued)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	195	Ski lift	Indicates the existence/location of a ski lift station.	C
	196	Cable car	Indicates the existence/location of a cable car.	C
	198	Canoeing site	Indicates the existence/location of a site for canoeing.	C
	199	Cultural assets	Indicates the existence/location of cultural assets.	C
	200-210	Reserved for future use		
	211	Natural assets	Indicates the existence/location of natural assets.	C
	212	Museum	Indicates the existence/location of museum.	C
	213	View point	Indicates the existence/location of a viewing site.	C
	214	Park	Indicates the existence/location of a park.	C
	215~999	Reserved for future use		

8.7 Pictogram code (without country code) no. 31111 to no. 31999: Ambient conditions pictograms (ambient condition)

Pictograms falling under this category shall be used to notify road users in advance of road-related conditions and events en route.

Table 7 — List of ambient conditions pictograms (ambient condition)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
31	111	Rainfall	Warns that it is raining en route to a certain place.	D
	112	Slippery section of road ahead because of ice or snow	Warns that it is snowing or icing en route to a certain place.	D
	113	Fog	Warns that it is foggy en route to a certain place.	D
	114	Poor visibility through snow, rain or fog	Warns that visibility is poor due to snow, rain or fog.	D
	115~358	Reserved for future use.	Reserved for future use.	D
	359	Strong side wind	Warns that there is a strong side wind en route to a certain place.	D
	361	Flood	Warns of flooding en route to a certain place.	D
	362~999	Reserved for future use.	Reserved for future use.	D

8.8 Pictogram code (without country code) no. 32111 to no. 32999: Ambient conditions pictograms (road condition)

Pictograms falling under this category shall be used to notify road users in advance of road-related conditions and events en route.

Table 8 — List of ambient conditions pictograms (road condition)

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
32	111	Traffic congestion	Warns that there is a traffic congestion ahead.	D
	112	Accident	Warns that an accident has occurred ahead.	D
	113	Vehicle on fire	Warns that there is a vehicle on fire ahead.	D
	114	Shed loads(s)	Warns that there are shed load(s) ahead.	D
	115	Slow moving maintenance vehicle	Warns that there is a slow-moving maintenance vehicle ahead.	D
	116	Breakdown vehicle	Warns that there is a breakdown vehicle standing still ahead.	D
	117~999	Reserved for future use.	Reserved for future use.	

8.9 Pictogram code (without country code) no. 41111 to no. 41999: Supplementary panel pictograms

Pictograms falling under this category shall be used to notify road users in advance of road-related conditions and events en route with supplemental and additional information.

Table 9 — List of supplementary panel pictograms

Pictogram code (without country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	111	Reserved for future use.		
	112	Snow plough in action	Notice that snow plough is in action.	C
	113	Traffic congestion	Indicates that the main sign is applicable due to the presence of traffic congestion.	C
	114	Danger of traffic congestion	Indicates that the main sign is applicable due to the danger of traffic congestion.	C
	115	Fog	Indicates that the main sign is applicable due to fog.	C
	116	Wet road surface	Indicates that the main sign is valid when the road surface is wet.	C
	117	Accident	Indicates that the main sign is applicable due to an accident on the road.	C
	118	Limited visibility	Indicates that the main sign is applicable due to limited visibility.	C
	119	Slippery road	Indicates that the main sign is applicable due to the presence of slippery road surface.	C

Table 9 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	120	Reserved for future use.		
	121	Wrong-way driver	Indicates that the main sign is applicable due to wrong-way driver/driver on wrong carriageway.	C
	122	Noise	Indicates that the main sign is applicable in order to reduce noise caused by road traffic.	C
	123	Safety distance	Instruction to keep safety distance from preceding vehicle due to reason indicated by main sign.	C
	124	Danger of black ice	Indicates that the main sign is applicable due to the danger of black ice.	C
	125	Black Ice	Indicates that the main sign is applicable due to the presence of black ice.	C
	126	Pollution	Indicates that the main sign is applicable due to pollution/smog in the air.	C
	127	Vehicle check	Indicates that the main sign is applicable due to the operation of vehicle checks by authorities.	C
	128	Oil slick	Indicates that the main sign is applicable due to an oil slick on the road surface.	C
	129	Broken-down vehicle	Indicates that the main sign is applicable due to a broken-down vehicle on the road.	C
	130	Reserved for future use.		
	131	Cross wind	Indicates that the main sign is applicable due to cross wind affecting the road traffic.	C
	132	Tunnel closure	Indicates that the main sign is applicable due to the closure of a tunnel.	C
	133	Diversion	Indicates that the main sign is applicable due to a traffic diversion ahead.	C
	134	Winter service	Indicates that the main sign is applicable to the presence of winter services treating the road surface.	C
	135	Traffic Congestion due to HGVs	Indicates that the main sign is applicable to the presence of traffic congestion caused by heavy goods vehicles (HGVs).	C
	136	Road closure	Indicates that the main sign is applicable to road closure.	C
	137	Distance to main sign applicability	Indicates that the main sign is applicable after the indicated distance.	C
	138	Distance of remaining applicability	Indicates that the main sign is applicable for the indicated distance.	C
	139	Weight restriction	Indicates that the main sign is applicable due to heavy goods vehicles with maximum laden weight above the indicated value.	C
	140	Reserved for future use		C
	141	Lane indication	Indicates that the main sign is applicable for the indicated lane only.	C

Table 9 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	142	Stop sign indication	Used together with "give way" indicates a point of the road where passing without stopping is prohibited at the specified distance ahead.	C
	143	Priority road crossing indication	Used together with "give way" indicates the presence of a priority road crossing.	C
	144	Priority road indication	Used together with "give way" indicates the presence of a priority road at an intersection.	C
	145	In case of ice or snow	Indicates that the main sign is applicable in case of ice or snow on the road surface.	C
	146	Except disabled	Used together with "standing and parking prohibited" indicates that standing and parking is permitted for vehicles of disabled owners.	C
	147	Except agricultural vehicles	Used together with "overtaking prohibited" indicates that overtaking of agricultural vehicles is allowed.	C
	148	Towing zone	Used together with "Standing and parking prohibited" indicates a towing zone.	C
	149	Except electric vehicles	Used together with "Standing and parking prohibited" indicates that electrically propelled vehicles are allowed to park during the charging process.	C
	150	Reserved for future use		C
	151	Right turn on red allowed	Used together with a traffic light, indicates that a right turn in case of red light is allowed.	C
	152	Passenger cars	Indicates that the main sign is applicable to vehicles or combinations of vehicles with a permissible total laden weight of less than 3,5 tonnes.	C
	153	Public transport vehicles	Indicates that the main sign is applicable to public transport vehicles.	C
	154	Motorcycles	Indicates that the main sign is applicable to motorcycles.	C
	155	Bicycle	Indicates that the main sign is applicable to bicycles.	C
	156	Heavy goods vehicles	Indicates that the main sign is applicable to HGVs (heavy goods vehicles).	C
	157	Pedestrians	Indicates that the main sign is applicable to pedestrians.	C
	158	Weight on axle	Indicates that the main sign is applicable to vehicles weighing more than the specified weight on one axle.	C
	159	Vehicles towing a trailer	Vehicles towing a trailer with a permissible gross weight exceeding 250 kg.	C
	160	Reserved for future use		C
	161	Vehicles towing a caravan	Vehicles towing a caravan or trailer over 250 kg and whose total laden weight, vehicle plus trailer, does not exceed 3,5 tonnes.	C
	162	Recall	Indicates that the main sign is repeated/recalled and is still applicable.	C

Table 9 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	163	Maintenance vehicles	Indicates that the main sign is applicable to maintenance vehicles.	C
	164	Except any power-driven vehicle drawing a trailer	Indicates that the main sign is applicable to vehicles except any power-driven vehicle drawing a trailer.	C
	165	Except for buses	Indicates that the main sign is applicable to vehicles except for buses.	C
	166	Except for goods vehicles	Indicates that the main sign is applicable to vehicles except for goods vehicles.	C
	167	Except for semi-trailers	Indicates that the main sign is applicable to vehicles except for semitrailers.	C
	168	Except for vehicles carrying dangerous goods	Indicates that the main sign is applicable to vehicles except for vehicles carrying dangerous goods.	C
	169	Restricted to any power-driven vehicle drawing a trailer.	Indicates that the main sign is applicable to restrict any power-driven vehicle drawing a trailer.	C
	170	Reserved for future use		
	171	Restricted to buses	Indicates that the main sign is applicable to restrict buses.	C
	172	Restricted to goods vehicles	Indicates that the main sign is applicable to goods vehicles.	C
	173	Restricted to semi-trailers	Indicates that the main sign is applicable to semi-trailers.	C
	174	Restricted to vehicles carrying dangerous goods	Indicates that the main sign is applicable to vehicles carrying dangerous goods.	C
	175	Except for local traffic vehicles	Indicates that the main sign is applicable to all vehicles except for vehicles of residents and or visitors of the area temporarily terminating their travel at a point within the affected area further down the road.	C
	176	Except for delivery vehicles	Indicates that the main sign is applicable to all vehicles except for vehicles delivering goods (temporarily terminating their trip).	C
	177	Directional arrow for turning left	Indicates that the place to which the main sign refers is after the left turn.	C
	178	Directional arrow for turning right	Indicates that the place to which the main sign refers is after the right turn.	C
	179	Number	Indicates the number of occurrences of the hazards or information reported by the main sign.	C
	180	Intersection shape	Indicates the actual shape of the intersection.	C
	181	Shape of two Intersections	Indicates the actual shape of two or more consecutive intersections and specifies which is the main road and which is secondary.	C
	182	Directional arrow for direct direction	Indicates the direction to the place to which the main sign refers.	C

Table 9 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	183	Beginning of the section	Indicates the beginning of the section of the validity of the main sign.	C
	184	Continuation of the section	Indicates the continuation of the section of the validity of the main sign.	C
	185	End of the section	Indicates the end of the section of the validity of the main sign.	C
	186	Validity of the section	Indicates the section for which the main sign is valid.	C
	187	The shape of the road-rail crossing	Indicates the shape of the road-rail crossing and is used especially in the case of sharp angles of this crossing.	C
	188	No time charge	Indicates a motorway section that is not subject to a time charge. The sign may also be used to indicate a section of the motorway which, unlike the preceding section, is not subject to a time charge.	C
	189	With time charge	Indicates a section of road whose use is subject to a time charge. The sign may also be used to indicate a section of motorway which, unlike the preceding section, is subject to a time charge.	C
	190	Without toll	Indicates a section of motorway that is not subject to tolls. The sign can also be used to indicate a section of the road which, unlike the previous section, is not subject to tolls.	C
	191	With toll	Indicates the section of road whose use is subject to tolls. The sign can also be used to indicate a section of motorway which, unlike the previous section, is subject to tolls.	C
	192	No time charge and no toll	Indicates a section of motorway that is not subject to time or toll charges. The sign may also be used to indicate a section of the road which, unlike the preceding section, is not subject to a time or toll charges.	C
	193	With time charge and toll	Indicates a section of road whose use is subject to time and toll charges. The sign may also be used to indicate a section of motorway which, unlike the preceding section, is subject to time and toll charges.	C
	194	Cyclists riding in the opposite direction	The sign, if placed under a "One-way traffic" sign, informs drivers that cyclists are allowed to ride in the opposite direction. Drivers must adapt their behaviour to this fact, in particular their obligation not to endanger other road users (cyclists).	C
	195	Cyclists allowed in the opposite direction	The sign, if placed under a "No entry for all vehicles" sign, permits cyclists to enter the one-way road in the given direction.	C
	196	Permitted direction of travel for cyclists	The sign indicates the possible direction of travel for cyclists using the corresponding directional arrows.	C

Table 9 (continued)

Pictogram code (with-out country code)		Description		Status
Service category code	Pictogram category code	Pictogram code name	Definition	
	197	Transit	The sign restricts the validity of the marking to goods vehicles for which the use of the section so marked is not necessary to reach the place of loading, unloading, maintenance or repair of the vehicle, the registered office, place of business or usual residence of the haulier or driver.	C
	198	Tunnel category	The sign supplements the main sign "No entry of vehicles carrying dangerous goods" and informs about the relevant tunnel category in the following road section. The indication of the category shall be given in the range of letters 'B' to 'E' according to UNECE ADR regulation).	C
	199	Distance to the next petrol station	The sign usually supplements the main sign "Signal before rest area" and informs about the distance to the service station following the service station located at the marked rest area.	C
	200	Insufficient clearance above the roadway	The sign, in combination with the "Other Hazard" sign, warns of the restriction of the road profile.	C
	201-999	Reserved for future use		C

Annex A
(normative)

ASN.1 description of GDD (version 2)

This annex presents the ASN.1 (abstract syntax notation) version 2 definition of the data types related to GDD structure, containers, data frames and data elements in accordance with the ASN.1 technique which shall be in accordance with ISO/IEC 8824-1. The object identifier of version 2 is specified as { iso(1) standard(0) gdd(14823) part1(1) gdd-version-2(2) revision-0(0)}.

The ASN.1 module is maintained at <https://standards.iso.org/iso/14823/-1/ed-1/en/>.

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Annex B (normative)

Attributes of GDD (version 2)

This annex presents a version 2 list of definitions of attributes and data types of the attribute qualifiers.

[Table B.1](#) specifies each attribute.

Table B.1 — List of attributes

Attributes	Definition
IntlSign-applicablePeriod	Time period during which the associated sign is valid.
IntlSign-exemptedPeriod	Exempted time period during which the associated sign is not valid.
IntlSign-section	A road section within which the sign takes effect.
IntlSign-applicableVehicleDimensions	The dimensional limitations or regulations for vehicles.
IntlSign-speedLimits	The limit values of vehicle speeds.
IntlSign-rateOfIncline	The rate of incline of a road expressed as a percentage.
IntlSign-vehicleHeadway	The minimum value of distance between vehicles.
IntlSign-destinationInfo	Route information elements of direction, destination, distance and other related items which can be used mainly for specifying informative signs.
IntlSign-compositeText	Embedment of text (multilingual string) on the default area of main pictogram.
IntlSign-includedRoadUser	A list of road users included associated with the sign. (If road users subject to notice were not included in the list, it can be expressed by the text).
IntlSign-excludedRoadUser	A list of road users excluded associated with the sign. (If road users subject to notice were not included in the list, it can be expressed by the text).
IntlSign-numberOfLane	The lane numbers from the outer side to the inner side of the considered carriageway, the number 0 designating the outermost drivable lane in each direction.
IntlSign-laneInformation	Lane information elements of lane status occupancy, allowed road users, prohibited road users, permitted manoeuvres.
IntlSign-conditionDetected	Indication of the weather conditions identified by the sign has recently been detected and the probability of encountering the condition remains heightened.

[Table B.2](#) presents definitions and data types of attribute qualifiers.

Table B.2 — List of qualifiers

Attributes	Qualifier	Definition	Data type
	YearRange-start	Time period of start year. (It shall be in accordance with ISO 8601-1:2019, 4.3.2).	INTEGER (2000..2027,...)
	YearRange-end	Time period of end year. (It shall be in accordance with ISO 8601-1:2019, 4.3.2).	INTEGER (2000..2027,...)
	DateRange-start	A calendar date expressed as the start month and day in local time. (It shall be in accordance with ISO 8601-1:2019, 4.3.3 and 4.3.5).	SEQUENCE { month INTEGER(1..12), day INTEGER(1..31) }

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
IntlSign- applicablePeriod	DateRange-end	A calendar date expressed as the end month and day in local time. (It shall be in accordance with ISO 8601-1:2019, 4.3.3 and 4.3.5).	SEQUENCE { month INTEGER(1..12), day INTEGER(1..31) }
	GddPeriod-fuzzy-Times	List of time period whose start, end or duration is based upon a non-precise or variable qualified concept, resulting in a non-precise, potentially circumstantial specified time period.	BIT STRING { other (0) external(1), dawn(2), dusk(3), school(4), holiday(5), winter(6), spring(7), summer(8), autumn(9), highTide(10), lowTide(11), highWater(12), lowWater(13), wetSeason(14), drySeason(15), peakHours(16), offPeakHours(17), day(18), night(19) } (SIZE (32))
	GddPeriod-dayTypes	The day types (e.g. holidays) on which the repeating period may be active.	BIT STRING { national-holiday (0), even-days(1), odd-days(2), market-day(3) dayBeforePublicHoliday(4), publicHoliday(5), dayFollowingPublicHoliday(6), longWeekendDay(7), inLieuOfPublicHoliday(8), schoolDay(9), schoolHolidays(10), publicEventDay(11), other(12) } (SIZE (16))
	TimeRange-start	Start time period bounded by two inclusive times. (It shall be in accordance with ISO 8601-1:2019, 4.3.8 and 4.3.9).	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
	TimeRange-end	End time period bounded by two inclusive times. (It shall be in accordance with ISO 8601-1:2019, 4.3.8 and 4.3.9).	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
	DaysOfWeek	A day of the week (it shall be in accordance with ISO 8601-1:2019, 4.3.6) expressed by a bitstring. When the bit is set to one, the day is selected.	BIT STRING { unused(0), monday(1), tuesday(2), wednesday(3), thursday(4), friday(5), saturday(6), sunday(7) } (SIZE (8))
	GddPeriod-duration	Duration time bounded by two inclusive times. (It shall be in accordance with ISO 8601-1:2019, 4.3.8 and 4.3.9).	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
IntlSign-exemptedPeriod	YearRange-start	Exempted time period of start year.	INTEGER (2000..2027,...)
	YearRange-end	Exempted time period of end year.	INTEGER (2000..2027,...)
	DateRange-start	Exempted calendar date expressed as the start month and day in local time.	SEQUENCE { month INTEGER(1..12), day INTEGER(1..31) }
	DateRange-end	Exempted calendar date expressed as the end month and day in local time.	SEQUENCE { month INTEGER(1..12), day INTEGER(1..31) }
	GddPeriod-fuzzy-Times	Exempted calendar date expressed as the end month and day in local time.	BIT STRING { other (0) external(1), dawn(2), dusk(3), school(4), holiday(5), winter(6), spring(7), summer(8), autumn(9), highTide(10), lowTide(11), highWater(12), lowWater(13), wetSeason(14), drySeason(15), peakHours(16), offPeakHours(17), day(18), night(19) } (SIZE (20))

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
	GddPeriod-dayTypes	Exempted day types (e.g. holidays) on which the repeating period may be active.	BIT STRING { national-holiday (0), even-days(1), odd-days(2), market-day(3) dayBeforePublicHoliday(4), publicHoliday(5), dayFollowingPublicHoliday(6), longWeekendDay(7), inLieuOfPublicHoliday(8), schoolDay(9), schoolHolidays(10), publicEventDay(11), other(12) } (SIZE (13))
	TimeRange-start	Exempted start time period bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
	TimeRange-end	Exempted end time period bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
	DaysOfWeek	Exempted start day of the week (it shall be in accordance with ISO 8601-1:2019, 4.3.6) expressed by a bit-string. When the bit is set to one, the day is selected.	BIT STRING { unused(0), monday(1), tuesday(2), wednesday(3), thursday(4), friday(5), saturday(6), sunday(7) } (SIZE (8))
	GddPeriod-duration	Exempted duration time bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
IntlSign-section	No qualifier is needed.	Length of a road section within which the sign takes effect.	distance

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
IntlSign-numberOfLane	No qualifier is needed.	The lane numbers from the left in the travelling direction of vehicles.	BIT STRING { lane0(0), lane1(1), lane2(2), lane3(3), lane4(4), lane5(5), lane6(6), lane7(7), lane8(8), lane9(9), lane10(10), } (SIZE (11))
IntlSign-applicableVehicleDimensions	MaxVehicleHeight	Maximum vehicle height limit to which the associated international sign applies.	distance
	MinVehicleHeight	Minimum vehicle height limit to which the associated international sign applies.	distance
	MaxVehicleWidth	Maximum vehicle width limit to which the associated international sign applies.	distance
	MinVehicleWidth	Minimum vehicle width limit to which the associated international sign applies.	distance
	MaxVehicleWeight	Maximum vehicle weight limit or vehicle axle weight limit to which the associated sign applies.	weight
	MinVehicleWeight	Minimum vehicle weight limit or vehicle axle weight limit to which the associated sign applies.	weight
	MaxVehicleLength	Maximum vehicle length limit to which the associated sign applies.	distance
	MinVehicleLength	Minimum vehicle length limit to which the associated sign applies.	distance
	MaxVehicleAxle-Weight	Maximum vehicle axle weight limit to which the associated sign applies.	weight
	MinVehicleAxle-Weight	Minimum vehicle axle weight limit to which the associated sign applies.	weight
IntlSign-speed-Limits	MaxSpeed	Maximum speed limit associated with the sign.	SEQUENCE { value INTEGER(1..250), unit code-Units(0..1) }
	MinSpeed	Minimum speed limit associated with the sign.	SEQUENCE { value INTEGER(1..250), unit code-Units(0..1) }
IntlSign-rateOf-Incline	No qualifier is needed.	The rate of incline as a percentage to be displayed on the sign.	INTEGER(1..32)

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
IntlSign-vehicle-Headway	No qualifier is needed.	Distance between vehicles (i.e. vehicular gap) limit associated with the sign. An integer value corresponding to the shape of diverging point is shown in Annex H .	distance
IntlSign-destinationInfo	DestinationJunction-Direction	Valid directions for a junction-type diverging point shown on the sign.	INTEGER(1..128)
	DestinationRoundaboutDirection	Valid directions for the roundabout-diverging point on the sign. An integer value corresponding to the shape of diverging point is shown in Annex H .	INTEGER(1..128)
	DestinationConnector-arrowDirection	Direction of the arrow associated with the SignDestination. An integer value corresponding to the shape of diverging point is shown in Annex H .	INTEGER(0..7)
	Destination-Road-type	Code that indicates the type of road-way.	INTEGER { none (0), nationalHighway (1), localHighway (2), tollMotorwayMotorway (3), internationalHighway (4), highway (5), motorway (6), nationalRoad (7), regionalProvincialRoad (8), localRoad (9), motorwayJunction (10), diversion (11), rfu1 (12), rfu2 (13), rfu3 (14), rfu4 (15) } (0..15, ...)

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
	Destination-Place-name	Code that indicates the type of area that may serve as a destination on a trip.	INTEGER { none (0), importantArea (1), principalArea (2), generalArea (3), wellKnownPoint (4), country (5), city (6), street (7), industrialArea (8), historicArea (9), touristicArea (10), culturalArea (11), touristicRoute (12), recommendedRoute (13), touristicAttraction (14), geographicArea (15) } (0..15, ...)
	Destination-Road-route	An official route type and number.	UTF8String
	Destination-Road-name	A localized name, typically in the native language.	multilingualString
	DestinationConnector-name	A localized name, typically in the native language.	multilingualString
	DestinationConnector-route	An official route type and number.	UTF8String
IntlSign--conditionDetected	No qualifier is needed.	Indication of whether the condition identified by the sign has recently been detected and the probability of encountering the condition remains high.	Boolean
IntlSign-compositeText	No qualifier is needed.	Embedment of text (multilingual string) on the default area of main pictogram.	MultilingualString
IntlSign-includedRoadUser	RoadUser	A list of included road users excluded associated with the sign. (If road users subject to notice are not included in the list, it can be expressed by the text).	CHOICE { text multiLingualText, codeV1 roadUserType, ... }
IntlSign-excludedRoadUser	RoadUser	A list of excluded road users excluded associated with the sign. (If road users subject to notice are not included in the list, it can be expressed by the text).	CHOICE { text multiLingualText, codeV1 roadUserType, ... }

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
IntlSign-laneInformation	LaneStatus	A list of lane statuses to inform of the change of lane status ahead such as open, closed or merge of lanes.	BIT STRING { unknown(0), openToOverallTraffic(1), closedToAllTraffic(2), mergingToLeft(3), mergingToRight(4), openToOppositeTraffic(5), openToTrafficFromBothDirections(6) }
	OccupancyMax	The maximum number of vehicles which the lane subject to notice can accommodate.	INTEGER(1..255)
	OccupancyMin	The minimum number of vehicles which the lane subject to notice can accommodate.	INTEGER(1..255)
	AllowedRoadUsers	A list of road users who are allowed to use the lane subject to notice.	CHOICE { text multiLingualText, codeV1 roadUserType, ... }
	ProhibitedRoadUsers	A list of road users who are prohibited from using the lane subject to notice.	CHOICE { text multiLingualText, codeV1 roadUserType, ... }
	AllowedManoeuvres	A list of vehicle travelling directions allowed by the traffic authority at the intersection.	BIT STRING { manoeuvreStraightAllowed (0), manoeuvreLeftTurnAllowed (1), manoeuvreRightTurnAllowed (2), manoeuvreUTurnAllowed (3), manoeuvreLaneChangeToRightAllowed (4), manoeuvreLaneChangeToLeftAllowed (5), giveWay (6), reserved (7) }

Table B.3 presents additional attributes to add an element to an attribute listed in Table B.1.

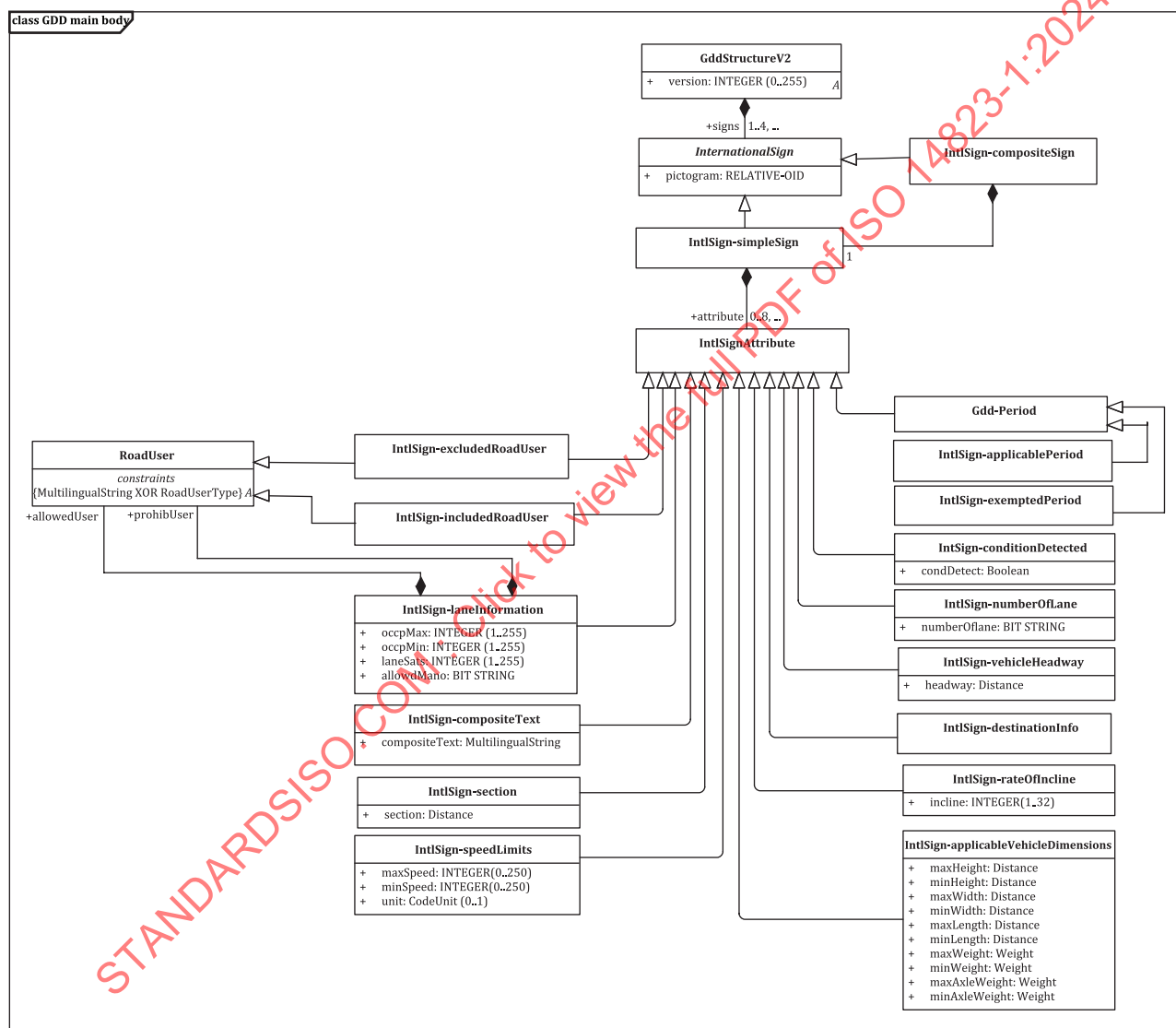
Table B.3 — Additional attributes

Attributes	Qualifier	Definition	Data type
CodeUnits	No qualifier is needed.	A code that identifies the units of measurement.	INTEGER { kmperhr (0), milesperhr (1), kilometre (2), metre (3), decimetre (4), centimetre (5), mile (6), yard (7), foot (8), minutesOfTime (9), tonnes (10), hundredkg (11), pound (12), rateOfIncline (13) — value 14 and 15 reserved for future use } (0..15)
Distance	No qualifier is needed.	A set of value and unit to indicate distance.	SEQUENCE{ value INTEGER(1..16384), unit codeUnits(2..4 6..8) }
Weight	No qualifier is needed.	A set of value and unit to indicate weight.	SEQUENCE { value INTEGER(1..16384), unit codeUnits (10..12) }
RoadUserType	No qualifier is needed.	A list of all road users related to the pictogram including pedestrian or cyclists.	ENUMERATED { personalCars (0), cycles (1), motorCycles (2), mopeds (3), goodsVehicles (4), anyPowerDrivenVehicleDrawingATrailerOtherThanSemiTrailer-OrSingleAxleTrailer (5), anyPowerDrivenVehicleDrawingATrailer (6), anyPowerDrivenVehicleDrawingATrailerWithTotalWeightNot-ExceedingThreeTonnesAndHalf (7),

Table B.3 (continued)

Attributes	Qualifier	Definition	Data type
			pedestrians (8), animalDrawnVehicles (9), riddenOrAccompaniedHorses (10), handcarts (11), powerDrivenAgriculturalVehicles (12), buses (13), tramways (14), anyPowerDrivenVehicleExceptTwoWheeledMotorCyclesWithoutSideCar (15), allVehicles (16), allRoadUsers (17), ... }
Multilingual-String	No qualifier is needed.	A multilingual string, whereby the same text may be expressed in more than one language. (It shall be in accordance with ISO/IEC 8825-5:2021, Annex A).	MultilingualString ::= SEQUENCE SIZE(1..MAX) OF Multilingual-StringValue MultilingualStringValue ::= SEQUENCE { lang XSD-Language OPTIONAL, value XSD-String(SIZE(0..1024)) }

[Figure C.1](#) represents the structure of the main body of the graphic data dictionary. [Figure C.2](#) represents the structure of GddPeriod. [Figure C.3](#) represents the structure of GddDestination. [Figure C.4](#) represents the structure of GDD data types. Each structure is represented using a UML diagram which shall be in accordance with ISO/IEC 19505-1.



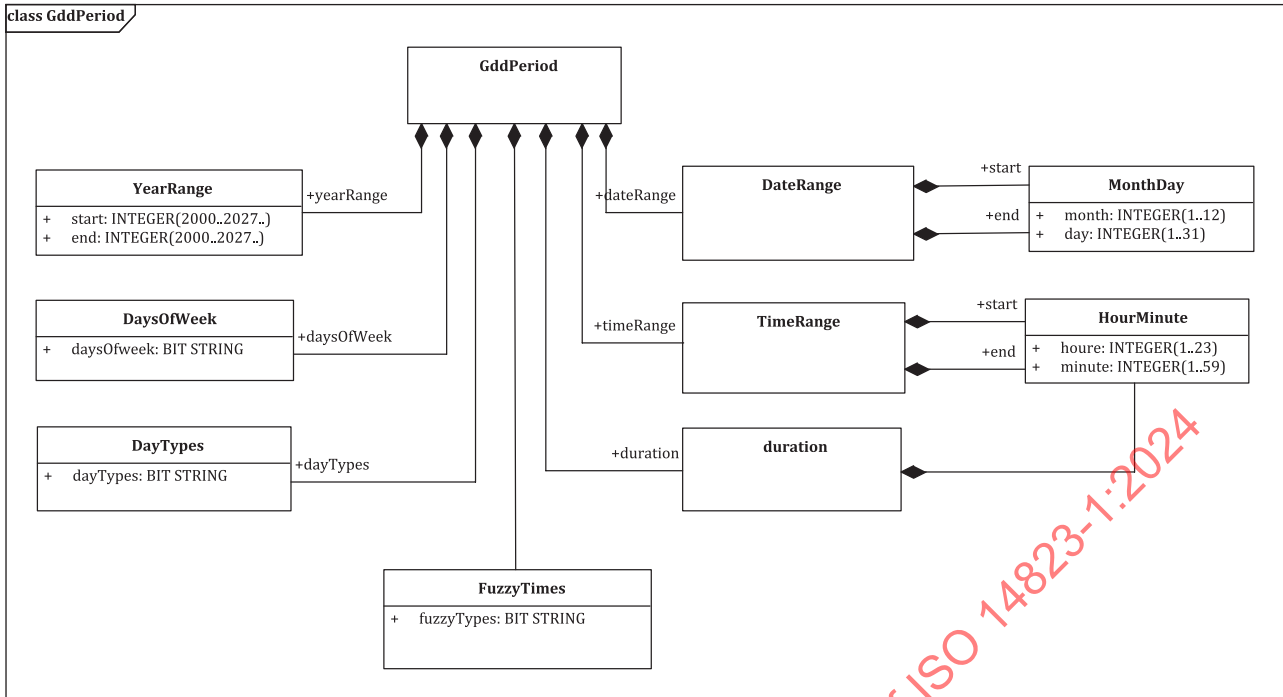


Figure C.2 — Structure of GddPeriod

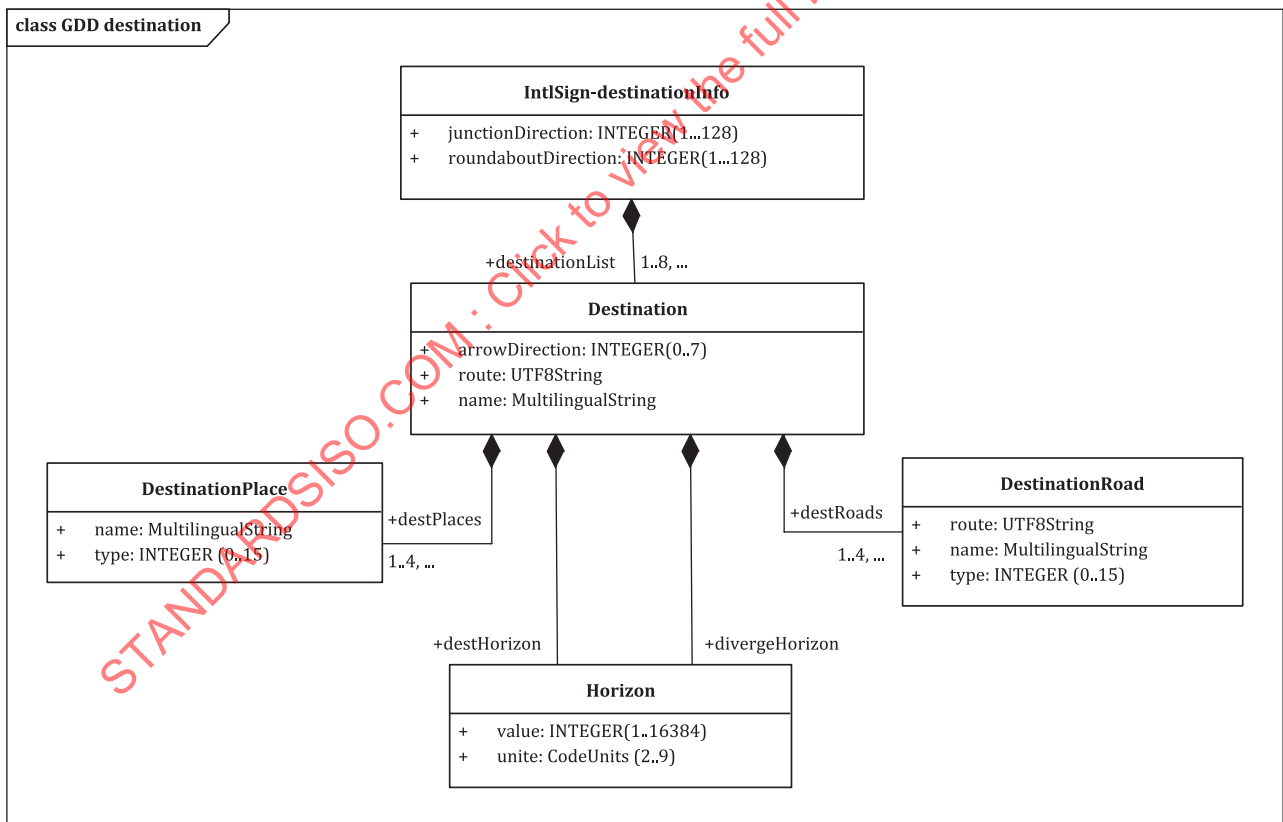


Figure C.3 — Structure of GddDestination

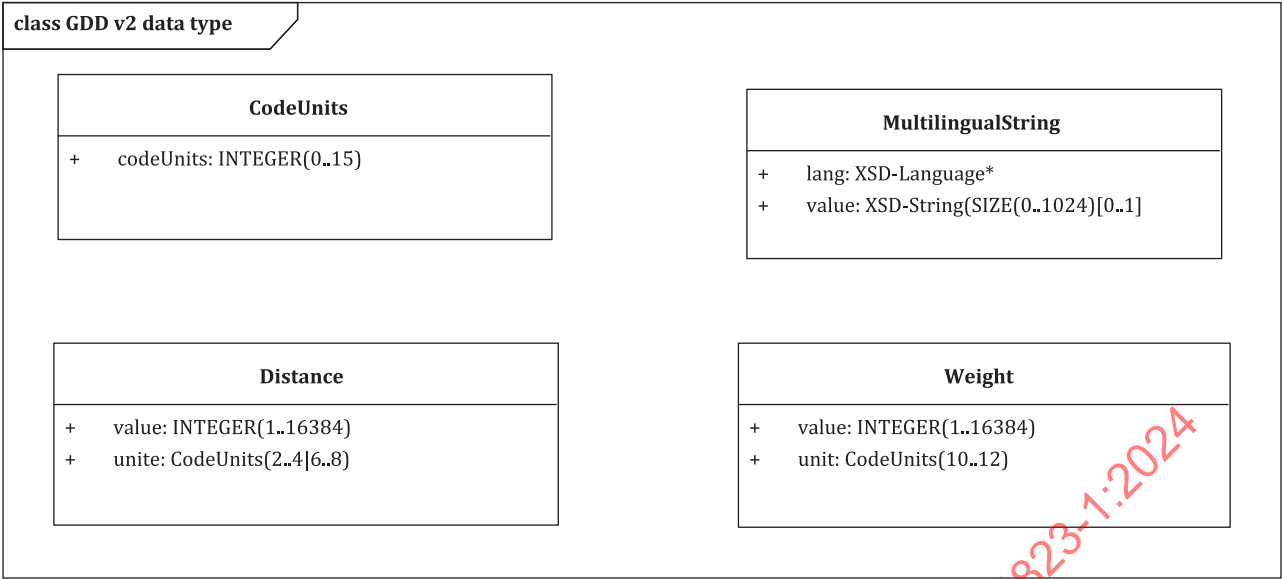


Figure C.4 — Structure of GddDataType

Annex D (normative)

Specializations (version 2)

In addition to the pictogram codes specified in this document, the Graphic Data Dictionary may use some internationally recognized specializations that further refine the pictogram to provide receivers with more specific, but incidental, information.

The OBJECT IDENTIFIERS assigned to internationally recognized specializations are sub-identifiers to the parent sign type. For example, a sign might be assigned the code:

```
{ joint(2) its(28) gdd(5) warning(11) warning 3(3) wildAnimalCrossing(63) bear(2) }
```

By convention, values zero (0) and one (1) of the internationally recognized specialization arc are reserved for the default and typically applied (but emphasized) meaning. For example, the following OID could be used to mean “Warning: wild animal crossing”:

```
{ joint(2) its(28) gdd(5) warning(11) warning 3(3) wildAnimalCrossing(63) unspecified(0) }
```

Whereas, if there was a desire to specifically warn about deer (i.e. “Warning: wild animal crossing: especially deer”), the OID would be:

```
{ joint(2) its(28) gdd(5) warning(11) warning 3(3) wildAnimalCrossing(63) deer(1) }
```

In addition to the pictogram codes specified in this document and additional internationally recognized specializations, many of the signs have country-specific representations. In most cases, these refinements represent minor aesthetic adjustments preferred by a country coupled with matching the icon with the country-specific backgrounds for the sign type. For example, the wild animal crossing warning road sign is represented in a variety of different ways across the world, but all generally represent some type of deer/elk as shown in [Figure D.1](#):

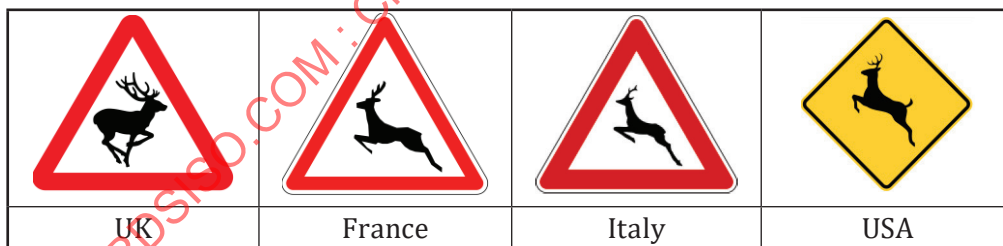


Figure D.1 — Country-specific representations of "wild animal crossing" road signs

The correct interpretation of all of the above road signs is “Warning: wild animal crossing (with a country-specific representation)”. The country code is embedded into the hierarchical OBJECT IDENTIFIER as an arc that appears after the internationally recognized specialization code. The codes assigned for each country shall be consistent with those assigned by num-3 code of ISO 3166-1. For example, Italy’s representation would be specified by:

```
{ joint(2) its(28) gdd(5) warning(11) warning 3(3) wildAnimalCrossing(63) unspecified(0) italy(380) }
```

If there was a desire to emphasize that the wild animal was a deer/elk, the code would be the following, which would result in the same image but a receiver might use the emphasis in some way to convey the meaning to the user:

```
{ joint(2) its(28) gdd(5) warning(11) warning 3(3) wildAnimalCrossing(63) deer(1) italy(380) }
```

The definition of the arcs of the object identifier tree underneath the country code arc are delegated to each respective country that wishes to further refine icons. The GDD recommends that countries follow the same specialization approach that ISO has used in its specialization/regional-representation arcs. In other words, this document recommends that the arc directly underneath a country code be used to specify any country-specific specializations of the more general icon and the following arc be used to identify any region-specific customizations within the country. This structure could be followed to any desired depth.

For example, if the local state wanted to create a message of “Warning: wild animal crossing: especially armadillo”, the object identifier value is specified as:

```
{ joint(2) its(28) gdd(5) warning(11) warning 3(3) wildAnimalCrossing(63) unspecified(0) usa(840)
unspecified(0) texas(48) armadillo(2)}
```

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Annex E (normative)

ASN.1 description of GDD (version 1)

This annex presents the ASN.1 (abstract syntax notation) version 1 definition of the data types related to GDD structure, containers, data frames and data elements in accordance with the ASN.1 technique which shall be in accordance with ISO/IEC 8824-1. The object identifier of version1 is specified as { iso(1) standard(0) gdd(14823) part1(1) gdd-version-1(1) revision-1(1) }.

The ASN.1 module is maintained at <https://standards.iso.org/iso/14823/-1/ed-1/en/>.

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