
Intelligent transport systems — Graphic data dictionary

*Systèmes de transport intelligents — Dictionnaire de données
graphiques*

STANDARDSISO.COM : Click to view the full PDF of ISO 14823:2017



STANDARDSISO.COM : Click to view the full PDF of ISO 14823:2017



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Conformance	2
5 Abbreviated terms	2
6 Requirements	2
7 Structure of Graphic Data Dictionary	3
7.1 General.....	3
7.2 Country code.....	3
7.3 Category code.....	3
7.3.1 Categorization policy.....	3
7.4 Data type of Graphic Data Dictionary.....	4
8 Numbering of category code	4
8.1 General.....	4
8.2 Service category code no. 11111-11999: Traffic sign pictograms (warning).....	5
8.3 Service category code no. 12111-12999: Traffic sign pictograms (regulatory).....	9
8.4 Service category code no. 13111-13999: Traffic sign pictograms (guidance signs).....	16
8.5 Service category code no. 21111-21999: Public facilities pictograms (public facilities).....	21
8.6 Service category code no. 31111-31999: Ambient/road conditions pictograms (ambient condition).....	23
8.7 Service category code No. 32111-32999: Ambient/road conditions pictograms (road condition).....	23
Annex A (normative) ASN.1 description of GDD	25
Annex B (normative) Attributes of GDD	28
Annex C (normative) List of directions at diverging point	34
Annex D (informative) UML diagram of GDD	39
Annex E (informative) Example GDD Data set for the U.N. and selected countries	40
Bibliography	41

Foreword

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

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

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

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

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

This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

This first edition cancels and replaces ISO/TS 14823:2008, which has been technically revised.

Introduction

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. It 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.

STANDARDSISO.COM : Click to view the full PDF of ISO 14823:2017

Intelligent transport systems — Graphic data dictionary

1 Scope

This document specifies a graphic data dictionary, a system of standardised 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.

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 codes*

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

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

3 Terms and definitions

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

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

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

3.1

attribute

code attached to the *pictogram* (3.4) in order to clarify the meaning of pictogram

3.2

country code

internationally recognised codes stipulated by ISO 3166-1 when referring to countries and subdivisions of countries

3.3

graphic data dictionary

catalogue of codes for *pictograms* (3.4) organised systematically

3.4

pictogram

sign or icon rendered on a display of IT system such as computer or VMS to inform travellers of information such as traffic regulations or public facilities

3.5

pictogram category code

codes assigned to the more detailed category of a *pictogram* (3.4) type under the service category

3.6

qualifier

parameter for an *attribute* (3.1) used to express the meaning of *pictogram* (3.4) quantitatively

3.7

service category code

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

4 Conformance

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

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

5 Abbreviated terms

ASN.1	Abstract Syntax Notation One
ITS	Intelligent Transport Systems
IT	Information Technology
UML	Unified Modelling Language
U.N.	United Nations
VMS	Variable Message Sign

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 supports the translation of 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 can 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 can use the contents of this document to decode the information concerning the specific pictogram to support display across a range of dissemination systems. Examples of these dissemination systems may include: Traffic Control Centre system user interfaces; Variable Message Signs; Public Access Terminals; mobile personal information systems; and, on-board units.

Requirements for ITS applications which utilize the Graphic Data Dictionary are as follows.

- Graphic data shall consist country code, category code, and optionally Attribute indicator.
- Category code shall be decided based on [Table 1](#).
- Regulatory pictogram code shall be selected from [Table 3](#).
- Guide pictogram code shall be selected from [Table 4](#).
- Public facilities pictogram code shall be selected from [Table 5](#).
- Ambient/road conditions pictogram code shall be selected from [Table 6](#).
- Integer value which indicate the direction shall be determined based on [Table B.3](#).
- If Attribute indicator is on, graphic data shall include attributes listed in [Table B.1](#).

- When transmitting Graphic data, it shall be coded based on the ASN.1 code described in [Annex A](#).

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

7 Structure of Graphic Data Dictionary

7.1 General

The Graphic Data Dictionary shall consist of country code, category code. The Graphic Data Dictionary supports the definition of optional attributes.

7.2 Country code

Country code stipulated by ISO 3166-1 is used to distinguish the country where Graphic Data Dictionary is provided, as the style of pictograms can be different in each country. For example, if the on-board unit has multiple countries' pictograms, it can render pictogram on the display in accordance to each county code when the traveller driving through adjacent countries.

7.3 Category code

7.3.1 Categorization policy

Category code consists of a service category code and a pictogram category code. Service category has following three types of categories: Traffic sign, Public facilities and Ambient/road conditions.

- Traffic signs are officially established pictograms in each country to control traffic using warning, regulatory or informative sign.
- Public facilities indicates the existence of certain public facilities and their service details (e.g. toilets, restaurants, first aid facilities, etc.).
- "Ambient/road condition" is concerned with the ambient condition of a roadway or local condition which may affect the flow of road traffic (such as bad weather and traffic congestion).

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

Table 1 — Category code

Category code			
Service category code		Pictogram category code	
Category number	Sub category number	Category number	
1: Traffic sign	1: Danger warning	1–9: Danger warning	Serial number (1–99)
	2: Regulatory	1–3: Priority	
		4–6: Prohibition or restriction	
		7–9: Mandatory	
	3: Informative	1–3: Advance direction	
		4: Direction	
		6: Lane guidance	
		7–9: Road/place identification	
2: Public facilities	1: Public facilities	1–9: Public facilities and services	
3: Ambient/ road condition	1: Ambient condition	1–9: Ambient condition and nature	
	2: Road condition	1–9 Road condition and nature	

7.4 Data type of Graphic Data Dictionary

Data type of Graphic Data Dictionary shall be as follows:

```
GddStructure ::= SEQUENCE {
    pictogramCode          SEQUENCE {
        countryCode        OCTET STRING (SIZE (2)) OPTIONAL,
        serviceCategoryCode CHOICE {
            trafficSignPictogram    ENUMERATED {dangerWarning, regulatory, informative,...},
            publicFacilitiesPictogram    ENUMERATED {publicFacilities, ...},
            ambientOrRoadConditionPictogram    ENUMERATED {ambientCondition, roadCondition,...},
            ...},
        pictogramCategoryCode SEQUENCE {
            nature          INTEGER (1..9),
            serialNumber    INTEGER (0..99)
        }
    },
    attributes             GddAttributes OPTIONAL
}

GddAttributes ::= SEQUENCE (SIZE(1..8),...) OF CHOICE{
    dtm International Sign-applicablePeriod, -- Date/Time/Period
    edt International Sign-exemptedApplicablePeriod, -- Exemption status of Date/Time/Period
    dfl International Sign-directionalFlowOfLane, -- Directional Flow of Lane
    ved International Sign-applicableVehicleDimensions, -- Vehicle Dimensions
    spe International Sign-speedLimits, -- Speed
    roi International Sign-rateOfIncline, -- Rate of Incline
    dbv International Sign-distanceBetweenVehicles, -- Distance Between Vehicles
    ddd International Sign-distinationInformation, -- Destination/Direction/Distance
    set International Sign-section, -- Section
    nol International Sign-numberOfLane --Number of Lanes
}
```

Details of GddAttributes are described in [Annex B](#).

8 Numbering of category code

8.1 General

The Graphic Data Dictionary specifies the Pictogram Category code of each Service Category.

8.2 Service category code no. 11111-11999: Traffic sign pictograms (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 to which they should take notice.

Table 2 — List of warning sign codes

Category code		Category code name	Definition
Service category	Picto-gram category		
11	111	Intersection where the priority is prescribed by the general priority rule (Crossroads)	Warning of the existence of a cross-shaped intersection ahead.
	112	Intersection where the priority is prescribed by the general priority rule (Side road right)	Warning of the existence of a side road ahead.
	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).
	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.
	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.
	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.
	117	Intersection where the priority is prescribed by the general priority rule (Y intersection)	Warning of a Y-shaped level intersection ahead.
	118	Intersection where the priority is prescribed by the general priority rule (Staggered intersection)	Warning of a staggered level intersection ahead.
	119~131	Reserved for future use.	
	132	Intersection with a road the users of which must give way	Warning of a priority road at intersection.
	133	Intersection with a road the users of which must give way T-shaped crossing left	Warning of a priority road at T-shaped crossing.

Table 2 (continued)

Category code		Category code name	Definition
Service category	Picto-gram category		
	134	Intersection with a road the users of which must give way T-shaped crossing right	Warning of a priority road at reversed T-shaped crossing.
	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 crossing of fork type (lower left) ahead.
	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 crossing of fork type (lower right) ahead.
	137~147	Reserved for future use.	
	148	Warning of roundabout (Clockwise)	Warning of a clockwise roundabout ahead.
	149	Warning of roundabout (Anti-clockwise)	Warning of an anti-clockwise roundabout ahead.
	150~160	Reserved for future use.	
	161	Dangerous bend (right bend)	Warning of a dangerous single curve to the right ahead.
	162	Dangerous bend (left bend)	Warning of a dangerous single curve to the left ahead.
	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.
	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.
	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).
	188	Reverse curve (left and right)	Warning of a combination of two curves (left and right) ahead (S-bend).
	189~210	Reserved for future use.	
	211	Dangerous bend (Double bend, right)	Warning of dangerous double or multiple bends which start with a right curve.
	212	Dangerous bend (Double bend, left)	Warning of dangerous double or multiple bends which start with a left curve.
	213~223	Reserved for future use.	
	224	Winding road (first to the right)	Warning of a winding section, which start with a right curve.
	225	Winding road (first to the left)	Warning of a winding section, which start with a left curve.

Table 2 (continued)

Category code		Category code name	Definition
Service category	Picto-gram category		
	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.
	237	Other level-crossing	Warning of a level railroad crossing point without gate or barrier ahead.
	238	Intersection with a tramway line	Warning of a road with a tramway line ahead.
	239	Children (right)	Warning of an area where children may exit from a school or playground frequently pass by and cross the road from the right side.
	241	Pedestrian crossing (right)	Warning of an area where pedestrians frequently pass by and cross the road from the right side.
	242	Elderly or disabled pedestrians likely to cross ahead	Warning of an area where elderly or disabled pedestrians likely pass by and cross the road ahead.
	243	Reserved for future use.	
	244	Children (left)	Warning of a crosswalk where children may exit from a school or playground frequently pass by and cross the road from the left side.
	245	Pedestrians crossing (left)	Warning of a crosswalk where pedestrians frequently pass by and cross the road from the left side.
	246	Pedestrian crossing ahead (left)	Warning of a crosswalk where pedestrians frequently pass by and cross the road from the left side.
	247	Pedestrian crossing ahead (right)	Warning of a crosswalk where pedestrians frequently pass by and cross the road from the right side.
	248~252	Reserved for future use.	
	253	Light signals	Warning of a signal-controlled crossing ahead where signal(s) are invisible or hard to identify from a distant point.
	254	Slippery road	Warning of a slippery road surface that may hinder travelling at normal speeds.
	255	Falling rocks (left)	Warning of the possibility of falling rocks or the presence of fallen rocks on road surface from the left side.
	256	Loose gravel	Warning of an unpaved section with loose gravel on the surface that may hinder travelling at normal speeds.
	257	Dangerous shoulders	Warning of a dangerous road shoulder.
	258	Falling rocks (right)	Warning of the possibility of falling rocks or the presence of fallen rocks on road surface (right).
	259~267	Reserved for future use.	
	268	Uneven road	Warning of a bumpy section ahead that may hinder travelling at normal speeds.
	269	Uneven road (hump bridge)	Warning of a road humps or series of road humps on road surface ahead that may hinder travelling at normal speeds.
	271	Uneven road (dip)	Warning of a section with a large single dip on road surface ahead that may hinder travelling at normal speeds.
	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.

Table 2 (continued)

Category code		Category code name	Definition
Service category	Picto-gram category		
	285	Traffic merging from left	Warning of a merge of an inflow lane from the left into through traffic.
	286~295	Reserved for future use.	
	296	Carriageway narrows from the right	Warning that the number of lanes is reduced from the right.
	297	Carriageway narrows from the left	Warning that the number of lane is reduced from the left.
	298~318	Reserved for future use.	
	319	Carriageway narrows	Warning that the width of the carriageway is reduced.
	320~331	Reserved for future use.	
	332	Two-way traffic	Warning that the approaching road is for two-way traffic.
	333~345	Reserved for future use.	
	346	Steep ascent	Warning that there is a steep hill upwards with the indicated rate of incline (%).
	347	Dangerous descent	Warning that there is a steep dangerous hill downwards with the indicated rate of incline (%).
	348	Road works	Warning that there is a section under road construction or repairs ahead.
	349~360	Reserved for future use.	
	361	Cross-wind (left)	Warning of the possibility of sudden side wind that may hinder travelling at normal speeds from the left side.
	362	Airfield (right)	Warning of the existence of low flying aircraft or sudden aircraft noise, (right).
	363	Wild animal crossing (right)	Warning of the possibility of wild animals crossing the road from the right hand side.
	364	Domestic animal crossing (right)	Warning of the possibility of domestic animal crossing the road from the right hand side.
	365	Cross-wind (right)	Warning of the possibility of cross-wind, right.
	366	Airfield (left)	Warning of the existence of low flying aircraft or sudden aircraft noise, (left).
	367	Wild animal crossing (right) (left)	Warning of the possibility of wild animals, crossing from the left side.
	368	Domestic animal crossing (left)	Warning of the possibility of domestic animal crossing from the left side.
	369~377	Reserved for future use.	
	378	Swing bridge	Warning of an opening or swing bridge ahead.
	379	Road leads to quayside or river bank	Warning of a quayside or river bank ahead.
	381	Cyclist entering or crossing (right)	Warning of a cycle route from the right side.
	382	Cyclist entering or crossing (left)	Warning of a cycle route from the left side.
	383~394	Reserved for future use.	
	395	Give way ahead	Warning of a crossing where drivers must give way the right-of-way to the road ahead.

Table 2 (continued)

Category code		Category code name	Definition
Service category	Pictogram category		
	396	Give way at specified distance ahead	Warning of a crossing where drivers must give way the right-of-way to the road at specified distance ahead. A distance to the crossing from the sign is suffixed to this information.
	397	Warning for an automatically rising bollard	Warning of an automatically deployed bollard that may rise from the road surface.
	398	Warning for wrong way driving	Warning of wrong way driving in the situation where drivers may misunderstand the direction for driving.
	399	Stop ahead	Warning of a crossing where drivers must stop ahead.
	400~410	Reserved for future use.	
	411	Level-crossings (vertically long)	Warning of a vertically long level-crossings ahead.
	412	Level-crossings (horizontally long)	Warning of a horizontally long level-crossings ahead.
	413	Level-crossings Two or more tracks (vertically long)	Warning of a vertically long level-crossings for two or more tracks ahead.
	414	Level-crossings Two or more tracks (horizontally long)	Warning of a horizontally long level-crossings for two or more tracks ahead.
	415	Additional signs at an approaches to level-crossing or swing bridges	Warning of an additional signs at an approaches to level-crossing or swing bridges.
	415~997	Reserved for future use.	
	998	Caution	Indicates auxiliary sign to alert.
	999	Other dangers	Warning of some possible danger. This sign is used in case where no other Warning Signs are applicable.

8.3 Service category code no. 12111-12999: Traffic sign pictograms (regulatory)

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

- priority signs (Pictogram category nos. 111-399);
- prohibition or restriction signs (Pictogram category nos. 411-699);
- mandatory signs (Pictogram category nos. 711-999).

Table 3 — List of regulatory sign codes

Code		Description	
Service category	Pictogram category	Full name	Definition
12	111	Priority for oncoming traffic	Notices that drivers must give way the right-of-traffic to oncoming traffic on a narrow section ahead.
	112	Stop	Notice of a point on the road where passing without stopping is prohibited.
	113	Stop specified distance ahead	Notice of a point of the road where passing without stopping is prohibited at specified distance ahead. A distance to the crossing from the sign is suffixed to this information.
	114	Assigned lane for light vehicles or motor cycles	Notices that a certain lane has been assigned for the priority use of light vehicles and motor cycles.
	115	Assigned lane for truck	Notices that specific goods vehicles (trucks) must use this lane.
	116	Assigned lane on motorway for trailers	Notices that specific goods vehicles (trailers) must use this lane on the motorway.
	117	Give way	Notices that drivers must give way the right-of-way to the road.
	118~126	Reserved for future use.	
	127	Assigned lane for trailers	Notices that trailers must use this lane.
	128	With flow bus and cycle lane	Notices of lane for use by buses and cycles.
	129	Exclusive lane for route bus	Notices that a certain lane has been assigned for the exclusive use of fixed-route buses.
	131	Priority lane for route buses and pedal cycles only	Notices that a certain lane has been assigned for the priority use of fixed-route buses and pedal cycles.
	132	Priority lane for route bus	Notices that a certain lane has been assigned for the priority use of fixed-route buses.
	133	Vehicles under specified weight are permitted	Notices that vehicle weighting over specified weight passing through the road is restricted.
	134	High occupancy vehicle lane	Notices that a lane is used for a high occupancy vehicle.
	135~153	Reserved for future use.	
	154	Centre line of road	Notice of dual carriageway ahead – notice of dividing of the carriageways which divides traffic directions onto separate carriageways.
	155	Turning restriction on a multi-lane approach to an intersection	Notice of layout ahead to facilitate lane selection.
	156	Stop line	Notice of the point to stop.
	157	Two-step right turn for mopeds	Notice that mopeds (under 50cc) must dismount for right turn.
	158	Do not make two-step right turn	Notice that mopeds (under 50cc) are prohibited to make two-step right turn.
	159	Two-step left turn for mopeds	Notice that mopeds (under 50cc) must dismount for left turn.
	160	Do not make two-step left turn	Notice that mopeds (under 50cc) are prohibited to make two-step left turn.

Table 3 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	161~175	Reserved for future use.	
	176	Slow down	Notice that any vehicles must reduce their speed in this zone.
	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.
	178	Priority road	Notice that drivers on this road have priority to go through a crossroads which they are approaching.
	179	End of priority	Notice of the end of priority road.
	180	Distance to end of priority	Notice of the end of priority with distance to it.
	181	Priority for oncoming traffic	Notice of priority for oncoming traffic.
	182~410	Reserved for future use.	
	411	No entry for all vehicles, mopeds, cycles, pedestrians	Notice that all vehicles/mopeds, cycles/pedestrians are forbidden to enter the road.
	412	No entry	Notice that motor vehicles are forbidden to enter the road.
	413	No entry into the designated direction of the road	Notice that motor vehicles are forbidden to enter in the designated direction of the road.
	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 forbidden to enter or exit a facility off the road.
	415	Closed to all vehicles in both directions	Notice that motor vehicles are forbidden to pass through the designated section of the road.
	416	No entry for any power driven vehicle except two wheeled motor cycles without a side-car	Notice that motor vehicles except two wheeled motor cycles without a side-car are forbidden to pass through the designated section of the road.
	417	No entry for motor cycles	Notice that motorcycles are forbidden to pass through the designated section of the road.
	418	No entry for cycles	Notice that cycles are forbidden to pass through the designated section of the road.
	419	No entry for mopeds	Notice that mopeds are forbidden to pass through the designated section of the road.
	421	No entry for goods vehicles	Notice that goods vehicles are forbidden to pass through the designated section of the road.
	422	No entry for any power driven vehicle drawing a trailer include a semi-trailer or a single axle trailer	Notice that motor vehicles with a trailer are forbidden to pass through the designated section of the road.
	423	No entry for pedestrians	Notice that pedestrians are forbidden to pass through the designated section of the road.
	424	No entry for animal-drawn vehicles	Notice that animal-drawn vehicles are forbidden to pass through the designated section of the road.

Table 3 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	425	No entry for handcarts.	Notice that handcarts or other vehicles without motors except bicycles are forbidden to pass through the designated section of the road.
	426	No entry for power driven agricultural vehicles	Notice that agricultural motor vehicles are forbidden to pass through the designated section of the road.
	427	No buses	Notice that buses are forbidden to pass through the designated section of the road.
	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 forbidden to pass through the designated section of the road.
	431	No ridden or accompanied horses	Notice that a horses ridden or not are forbidden to pass through the designated section of the road.
	433	No vehicles that cannot exceed specified speed	Notice that vehicles that cannot exceed specified speed are forbidden to pass through the designated section of the road.
	434	No entry for any power-driven vehicle drawing a trailer	Notice that power driven vehicles drawing any trailers are forbidden to pass through the designated section of the road.
	435~450	Reserved for future use.	
	451	No entry for power driven vehicles	Notice that motor vehicles whose classes are specified on the sign are forbidden to pass through the designated section of the road.
	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 forbidden to pass through the designated section of the road.
	453	No entry for goods vehicles and buses	Notice that goods vehicles and buses are forbidden to pass through the designated section of the road.
	454	No entry for bicycles, mopeds and disabled drivers' vehicles	Notice that bicycles, mopeds and disabled drivers' vehicles are forbidden to pass through the designated section of the road.
	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, no microcars, bikes, mopeds and disabled drivers' mobility vehicles are forbidden to pass through the designated section of the road.
	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 forbidden to pass through the designated section of the road.
	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 forbidden to pass through the designated section of the road.

Table 3 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	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 forbidden to pass through the designated section of the road.
	478~498	Reserved for future use.	
	499	No entry for vehicles having an over-all width exceeding specified width	Notice that motor vehicles with more than the specified width are forbidden to pass through the designated section of the road.
	500~510	Reserved for future use.	
	511	No entry for vehicles having an overall height exceeding specified height	Notice that motor vehicles with more than the specified height are forbidden to pass through the designated section of the road.
	512	No entry for vehicles exceeding specified weight	Notice that motor vehicles with more than the specified weight are forbidden to pass through the designated section of the road.
	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 forbidden to pass through the designated section of the road.
	514	No entry for vehicles or combinations of vehicles exceeding specified length X	Notice that motor vehicles with more than the specified length are forbidden to pass through the designated section of the road.
	515	Driving of vehicles less than 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.
	516~526	Reserved for future use.	
	527	No left turns	Notice that motor vehicles are forbidden to turn left.
	528	No right turns	Notice that motor vehicles are forbidden to turn right.
	529	No U-turns	Notice that motor vehicles are forbidden to make U-turn.
	530~541	Reserved for future use.	
	542	Overtaking prohibited	Notice that motor vehicles are forbidden overtake other vehicles.
	543~	Reserved for future use.	
	544	Overtaking by goods vehicles prohibited	Notice that motor vehicles are forbidden to overtake goods vehicles.
	545~556	Reserved for future use.	
	557	Maximum speed limited to the figure indicated	Notice that the maximum speed for motor vehicles is regulated.
	558	Use of audible warning devices prohibited	Notice that motor vehicle operators from blowing the horns for warning when passing through the designated section of the road is prohibited.
	561	Passing without stopping prohibited (customs)	Notice of compulsory stop for customs check.

Table 3 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	562	Stop for (military police check)	Notice of compulsory stop for military police check.
	563	Stop for (police check)	Notice of compulsory stop for police check.
	564	Stop for (toll gate)	Notice of compulsory stop for toll collection.
	565	Pedestrians crossover prohibited	Notice that pedestrians are prohibited from crossing the road.
	566~576	Reserved for future use.	
	577	Parking prohibited	Notice that motor vehicles are forbidden to park in the designated section of the road.
	578	Standing and parking prohibited	Notice that motor vehicles are forbidden to park or stop still in the designated section of the road.
	579	Alternate parking (1st to 15th day)	Notice that motor vehicles are allowed to park from the 1st to 15th of each month.
	581	Alternate parking (16th to 31st day)	Notice that motor vehicles are allowed to park from the 16th to 31st of each month.
	582~591	Reserved for future use.	
	592	Emergency parking only	Notice that the use of parking area is permitted in case of emergency.
	593	Limited duration parking zone	Notice that limited parking times and/or duration is applicable.
	594	Limited duration no parking zone	Notice that limited parking times and/or duration is not applicable.
	595	Zone in which parking is prohibited	Notice that zone in which parking is prohibited.
	596	Zone in which parking is prohibited at certain times zone in which parking is prohibited at certain times	Notice that zone in which parking is prohibited at certain times zone in which parking is prohibited at certain times.
	597	End of zone in which parking is prohibited	Notice that end of zone in which parking is prohibited.
	598	End of zone in which parking is prohibited at certain times zone in which parking is prohibited at certain times	Notice that end of zone in which parking is prohibited at certain times zone in which parking is prohibited at certain times.
	599~610	Reserved for future use.	
	611	End of all local prohibition imposed on moving vehicles	Notice of the end of all local prohibition imposed on moving vehicles.
	612	End of prohibition of overtaking	Notice of the end of prohibition of overtaking.
	613	End of prohibition of overtaking for goods vehicles	Notice of the end of prohibition of overtaking for goods vehicles.
	614	End of speed limit	Notice of the end of speed limit.
	615	End of compulsory minimum speed	Notice of the end of compulsory minimum speed.

Table 3 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	616	General speed limit	Notice of a general speed limit in force in a country or in a subdivision of that country.
	617~620	Reserved for future use.	
	621	Driving on tram track permitted	Notice that vehicles can drive on tram track.
	622	Stopping permitted	Notice that stopping is permitted in the zone.
	623~630	Reserved for future use.	
	631	Distance to regulated road or of the zone	Notice of Distance to regulated road or of the zone.
	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.
	633	Prohibition begins at this point	Notice of prohibition begins at this point.
	634	Prohibition repeats at this point	Notice of prohibition repeats at this point.
	635	Prohibition ends at this point	Notice of prohibition ends at this point.
	636	Regulation for particular road users	Notice of regulation for particular road users.
	637	Regulation exception for a certain category of road users	Notice of regulation exception for a certain category of road users.
	638~710	Reserved for future use.	
	711	Direction to be followed (left)	Travel to the left direction only.
	712	Direction to be followed (right)	Travel to the right direction only.
	713	Direction to be followed straight ahead	Travel straight ahead.
	714	Direction to be followed (right turn)	Right turn only.
	715	Direction to be followed (left turn)	Left turn only.
	716	Direction to be followed (right, straight)	Straight ahead or right turn only.
	717	Direction to be followed (left, straight)	Straight Ahead or left turn only.
	718	Pass this side (right side)	Pass to the right.
	719	Pass this side (left side)	Pass to the left.
	721	Direction to be followed (both sides)	Right turn or left turn only.
	723	Pass this side (both sides)	Pass either side.
	724	Compulsory direction for vehicles carrying dangerous goods	
	725~742	Reserved for future use.	

Table 3 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	743	Direction to be followed (two-way traffic)	Notice of two-way traffic ahead.
	744	Direction to be followed (right) (one-way road)	Notice of one-way road to the right ahead.
	745	Direction to be followed (left) (one-way road)	Notice of one-way road to the left ahead.
	746	Compulsory roundabout (clockwise)	Notice of a clockwise roundabout ahead.
	747	Compulsory roundabout (anti-clockwise)	Notice of an anti-clockwise roundabout ahead.
	748	Road for motor vehicles only	Notice that the road from here is only for motor vehicles.
	749	Compulsory cycle track	Notice that the path or track is compulsory for cycles.
	751	Riding abreast permitted	Notice that a riding abreast is permitted.
	752	Bicycle crossing zone	Notice of the zone where bicycles cross.
	753	Compulsory footpath	Notice that the path or track is for compulsory for pedestrians.
	754	Compulsory track for riders on horseback	Notice that the path or track is for compulsory for horseback riders.
	755~771	Reserved for future use.	
	772	Pedestrian and bicycle crossing zone	Notice of the zone where pedestrians and bicycles cross.
	773	Compulsory cycle track and compulsory footpath	Notice of that the path or track is only for pedestrians and cyclists.
	774~794	Reserved for future use.	
	795	Compulsory minimum speed	Notice that the minimum speed of motor vehicles when travelling is regulated.
	796	Snow chains compulsory	Notice that motor vehicles to have snow chains fitted is mandated.
	797~999	Reserved for future use.	

8.4 Service category code no. 13111-13999: Traffic sign pictograms (guidance signs)

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 divided into the following:

- a) advance direction signs (pictogram category nos. 111-399);
- b) direction signs (pictogram category nos. 411-499);
- c) lane guide (pictogram category nos. 611-699);
- d) road/place identification signs (pictogram category nos. 711-999).

Table 4 — List of guide sign codes

Code		Description	
Service category	Picto-gram category	Full 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.
	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.
	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.
	113~132	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.
	134~167	Reserved for future use.	
	168	Motorway entrance	Notice of a motorway entrance with indications of the place name and a distance to the entrance from the present location.
	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.
	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.
	172	Advance direction signs showing the exit of motorway	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.
	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.
	174	End of motorway	Notice of end of motorway.
	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).
	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).
	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).
	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).
	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).
	189	Sign showing the direction of places with road names	Notice of the destination information selectable at a junction with indications of the junction layout, place name(s) and distance(s) to destination(s).

Table 4 (continued)

Code		Description	
Service category	Picto-gram category	Full name	Definition
	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.
	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.
	224	Direction signs showing the exit of motorway	Notice of the direction of a motorway exit with indications of place name and exit number.
	225	Signs assigning the lane for the place on the motorway	Notice of the destination of a lane to be taken.
	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.
	227~325	Reserved for future use.	
	326	National/state highway number	Notice of the road number of a national/interstate highway.
	327	Local highway number	Notice of the road number of a local highway.
	328~524	Reserved for future use.	
	525	No through road (front)	Notice of dead-end of the road ahead.
	526	No through road	Notice of dead-end of the connecting road at the next junction.
	527~537	Reserved for future use.	
	538	Priority over oncoming traffic	Notices that the following direction has the right-of-way over oncoming traffic on narrow sections ahead.
	539	Access permitted	Notices that access is permitted.
	540~610	Reserved for future use.	
	611	Number and direction of traffic lanes	
	612	Lane ends	Notices that the left lane ends at a point ahead.
	613	Lane divergence	Notices that the lane diverges at a point ahead.
	614	Trucks prohibited from this lane	Notice that trucks prohibited from this lane.
	615	Trucks prohibited from main lanes	Notice that trucks prohibited from main lanes.
	616	Trucks prohibited from diverging lane	Notice that trucks prohibited from diverging lane.
	617	Advance direction sign for route to be followed	Notice of route to be followed.
	618	Detour	Notice that route detour ahead.
	619	Crawler lane	Notice of crawler lane.
	621	Escape lane (right type)	Notice of an escape lane right ahead.
	622	Escape lane (left type)	Notice of an escape lane left ahead.
	623	One-way street	Notice of one-way street ahead.
	624	Lane convergence	Notice of lane convergence ahead.
	625	Reserved for future use.	
	643	Directional flows	Notice that directional flow is allowed ahead.

Table 4 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	644	Directional flows and lane convergence	Notice that lane converges and directional flow is allowed ahead.
	645	Peak time lane open 3/1	Notice of start of fourth peak time hour lane ahead.
	646	End of peak time lane	Notice of end of peak time lane ahead.
	647	End of peak time lane 3/1	Notice of end of fourth peak time at lane ahead.
	648	Clear peak time lane	Notice that peak time lane ends and converges.
	649	Clear peak time lane 3/1	Notice that forth peak time lane ends and converges.
	651	Closure of a traffic lane, two lanes to one (right lane ends)	Notice of closure of a traffic lane, two lanes to one (right lane ends).
	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).
	653	Lane convergence, four lanes to three (right lane ends)	Notice of lane convergence, four lanes to three (right lane ends).
	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).
	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).
	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).
	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.
	658	One lane crossover at contra-flow road works (shift right)	Notice that two traffic lanes move to the right: one crosses over to the other carriageway. The advised speed where the lanes divert is specified.
	659	Lane closed	Notice of lane closure.
	660	Lane free	Notice that a lane is free.
	661	Clear lane to left	Notice of clear lane to left.
	662	Clear lane to right	Notice of clear lane to right.
	663	End of all restrictions by electronic signs	Notice of end of all restrictions by electronic signs.
	664	Compulsory minimum speed applying to different lanes	Notice that compulsory minimum speed is applied to different lanes.
	665	Compulsory minimum speed applying to one lane	Notice that compulsory minimum speed is applied to one lane.
	666	speed limits applying to different lanes	Notice that speed limit is applied to different lanes.
	667	lanes reserved for buses	Notice that lanes are reserved for buses.
	668	One-way	Notice of one-way ahead.
	669	Preselection	Notice of preselection ahead.
	670~810	Reserved for future use.	
	811	Road for motor vehicles	Notice of road for motor vehicles.
	812	End of road for motor vehicles	Notice of end of road for motor vehicles.
	813	Tunnel	Notice of a tunnel ahead.
	814	End of tunnel	Notice of the end of tunnel.

Table 4 (continued)

Code		Description	
Service category	Picto-gram category	Full name	Definition
	815	Pedestrian crossing	Notice of a pedestrian crossing.
	814~820	Reserved for future use.	
	821	Safety evacuation area	Notice of a safety evacuation area.
	822	Emergency exit	Notice of an emergency exit.
	823	Extinguisher	Notice of an extinguisher.
	824	Emergency telephone	Notice of an emergency roadside telephone.
	825	Emergency call button	Notice of an emergency call button.
	826	Emergency stopping place	Notice of an emergency stopping place.
	827	Waiting area for slower traffic	Notice of a waiting area for slower traffic.
	828	Safety zone	Notice of a safety zone.
	829	Hospital	Notice of a hospital.
	831	Toll gate	Notice of a toll gate.
	832	Toll zone	Notice of a toll zone.
	833	Automatic toll gate	Notice of an automatic toll gate.
	834	Manual toll gate	Notice of a manual toll gate.
	835	Bicycle	Notice of a zone for bicycle.
	836	Aircraft/airport	Notice of an airport.
	837	Departures	Notice of airport departure area.
	838	Arrivals	Notice of airport arrival area.
	839	Helicopter/heliport	Notice of heliport.
	841	Railway/railway station	Notice of railway station.
	843	Rent a car	Notice of car rental facility.
	844	Taxi stop	Notice of taxi stop.
	845	Bus stop	Notice of bus stop.
	846	Tramway stop	Notice of tramway stop.
	847	Road open or closed	Notice of road open or closed.
	846~850	Reserved for future use.	
	851	Parking	Notice of a parking area.
	852	Parking (Machine-charged)	Notice of a machine-charged parking.
	853	Park-and-ride point	Notice of a park-and-ride point.
	854	Car ferry	Notice of a car ferry port.
	855	Car train	Notice of car train area.
	854~860	Reserved for future use.	
	861	Beginning of a built-up area	Notice of beginning of a built-up area.
	862	End of a built-up area	Notice of end of a built-up area.
	863~864	Reserved for future use.	
	865	Parking zone	Notice of a parking zone.
	866	Maximum speed zone	Notice of a maximum speed zone.
	867~868	Reserved for future use.	
	869	End of parking zone	Notice of end of parking zone.
	871	End of maximum speed zone	Notice of end of maximum speed zone.

Table 4 (continued)

Code		Description	
Service category	Picto-gram category	Full name	Definition
	872	Residential area	Notice of a residential area.
	873	End of residential area	Notice of end of residential area.
	872~880	Reserved for future use.	
	881	Direction of an airfield/airport	Notice of direction of an airfield/airport.
	882	Direction of a camping site.	Notice of direction of a camping site.
	883	Direction of a youth hostel	Notice of direction of a youth hostel.
	884	Direction of public transport	Notice of direction of public transport.
	885	Confirmatory signs	Notice of confirmatory signs.
	886	Chains or snow tyres recommended	Notice that chains or snow tyres recommended.
	887	Advisory speed	Notice of advisory speed.
	889	Advised itinerary for heavy vehicles	Notice of an advised itinerary for heavy vehicles.
	891	Pedestrian overpass or underpass	Notice of a pedestrian overpass or underpass.
	892	Pedestrian overpass or underpass without steps	Notice of a pedestrian overpass or underpass without steps.
	893	Exit from a motorway	Notice of an exit from a motorway.
	894	Direction and distance of the nearest emergency exits	Notice of direction and distance of the nearest emergency exits.
	895	Parking space reserved for handicapped persons	Notice of a parking space reserved for handicapped persons
	896	Priority roads within an intersection	Notice of the intersection utilising broad strokes that indicate priority roads over lower priority roads indicated by narrower strokes.
	897~999	Reserved for future use.	

8.5 Service category code no. 21111-21999: 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 5 — List of public facilities sign codes

Code		Description	
Service category	Picto-gram category	Full name	Definition
21	111	Tourist information	Indicates the existence/location of an information centre.
	112	Police	Indicates the existence/location of a police office.
	113	Facilities for wheelchair user	Indicates facilities for wheelchair users.
	114	Telephone	Indicates the existence/location of public telephone booths.
	115	First-aid station	Indicates the existence/location of a first-aid station.
	116	Hospital	Indicates the location of a hospital.

Table 5 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	117~124	Reserved for future use.	
	125	Maintenance service	Indicates the existence/location of a maintenance service station.
	126	Breakdown service	Indicates the existence/location of a breakdown service station.
	127	Place to inflate a tyre	Indicates the place to inflate a tyre.
	128	Filling station	Indicates the existence/location of a filling station.
	129	Filling station (+LPG)	Indicates the existence/location of a filling station where LPG is available.
	130~144	Reserved for future use.	
	145	Public lavatory	Indicates the existence/location of a public lavatory.
	146	Restroom for wheelchair user	Indicates the existence/location of a restroom for wheelchair user.
	147	Radio stations giving traffic information	Indicates the provision of a radio stations giving traffic information.
	148	Beach or swimming pool	Indicates the existence/location of a beach or swimming pool.
	147~160	Reserved for future use.	
	161	Restaurant	Indicates the existence/location of a restaurant.
	162	Refreshment stand/Cafeteria	Indicates the existence/location of a refreshment stand or cafeteria.
	163	Service area	Indicates the existence/location of a service area (with no description of services provided).
	164	Postal office	Indicates the existence/location of a postal office.
	165~179	Reserved for future use.	
	181	Hotel or Motel	Indicates the existence/location of a hotel or motel.
	182	Hotel/Motel for wheelchair user	Indicates that the Hotel/Motel is available for wheelchair user.
	183	Youth hostel	Indicates the existence/location of a youth hostel.
	184	Youth hostel for wheelchair user	Indicates the youth hostel is available for wheel chair user.
	185	Camping site	Indicates the existence/location of a camping site.
	186	Caravan site	Indicates the existence/location of a caravan site.
	187	Camping and caravan site	Indicates the existence/location of camping and caravan sites.
	188	Recreational vehicle sanitary station	Indicates the availability of facilities designed for the use of dumping wastes from recreational vehicle holding tank.
	189	Picnic site	Indicates the existence/location of a roadside picnic site.
	191	Playground for children	Indicates the existence/location of a playground for children.
	192	Starting-point for walks	Indicates the existence/location of a starting point for walking.
	193	Relaxation area	Indicates the existence/location of a relaxation area.
	194	Cross-country skiing site	Indicates the existence/location of a cross-country skiing site.

Table 5 (continued)

Code		Description	
Service category	Pictogram category	Full name	Definition
	195	Ski lift	Indicates the existence/location of a ski lift station.
	196	Cable car	Indicates the existence/location of a cable car.
	198	Canoeing site	Indicates the existence/location of a site for canoeing.
	199	Cultural assets	Indicates the existence/location of cultural assets.
	211	Natural assets	Indicates the existence/location of natural assets.
	212	Museum	Indicates the existence/location of museum.
	213	View point	Indicates the existence/location of a viewing site.
	214	Park	Indicates the existence/location of a park.
	215~999	Reserved for future use.	

8.6 Service category code no. 31111-31999: Ambient/road conditions pictograms (ambient condition)

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

Table 6 — List of public ambient conditions sign codes

Code		Description	
Service category	Pictogram category	Full name	Definition
31	111	Rainfall	Warns that it is raining en route to a certain place.
	112	Slippery section of road ahead because of ice or snow	Warns that it is snowing or icing en route to a certain place.
	113	Fog	Warns that it is foggy en route to a certain place.
	114	Poor visibility through snow, rain or fog	Warns that visibility is poor due to snow, rain or fog.
	115~358	Reserved for future use.	Reserved for future use.
	359	Strong side-wind	Warns that there is a strong side wind en route to a certain place.
	361	Flood	Warns of flooding en route to a certain place.
	362~999	Reserved for future use.	Reserved for future use.

8.7 Service category code No. 32111-32999: Ambient/road conditions pictograms (road condition)

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

Table 7 — List of public road conditions sign code

Code		Description	
Service category	Pictogram category	Full name	Definition
32	111	Traffic congestion	Warns that there is a traffic congestion ahead.
	112	Accident	Warns that an accident has occurred ahead.
	113	Vehicle on fire	Warns that there is a vehicle on fire ahead.
	114	Shed loads(s)	Warns that there are shed load(s) ahead.
	115	Slow moving maintenance vehicle	Warns that there is a slow-moving maintenance vehicle ahead.
	16	Breakdown vehicle	Warns that there is a breakdown vehicle standing still ahead.
	117~999	Reserved for future use.	Reserved for future use.

Annex A (normative)

ASN.1 description of GDD

This annex presents the ASN.1 (abstract syntax notation one) definition of the data types related to GDD structure, containers, data frames and data elements in accordance with the ASN.1 technique as specified in ISO/IEC 8824-1.

```
GDD {iso (1) standard (0) gdd(14823) version1 (0)}

DEFINITIONS AUTOMATIC TAGS::=
BEGIN

--Definition of GDD Structure

GddStructure ::= SEQUENCE {
    pictogramCode          SEQUENCE {
        countryCode        OCTET STRING (SIZE (2)) OPTIONAL,
        serviceCategoryCode CHOICE {
            trafficSignPictogram      ENUMERATED {dangerWarning, regulatory, informative,...},
            publicFacilitiesPictogram  ENUMERATED {publicFacilities, ...},
            ambientOrRoadConditionPictogram  ENUMERATED {ambientCondition, roadCondition,...},
            ...},
        pictogramCategoryCode SEQUENCE {
            nature            INTEGER (1..9),
            serialNumber      INTEGER (0..99)
        }},
    attributes              GddAttributes OPTIONAL
}

-- Definition of the single ISO 14823 Attributes
GddAttributes ::= SEQUENCE (SIZE (1..6)) OF CHOICE {
    dtm International Sign-applicablePeriod, -- Date/Time/Period
    edt International Sign-exemptedApplicablePeriod, -- Exemption status of Date/Time/Period
    dfl International Sign-directionalFlowOfLane, -- Directional Flow of Lane
    ved International Sign-applicableVehicleDimensions, -- Vehicle Dimensions
    spe International Sign-speedLimits, -- Speed
    roi International Sign-rateOfIncline, -- Rate of Incline
    dbv International Sign-distanceBetweenVehicles, -- Distance Between Vehicles
    ddd International Sign-destinationInformation, -- Destination/Direction/Distance
    set International Sign-section, -- Section
    nol International Sign-numberOfLane --Number of Lanes
}

International Sign-applicablePeriod ::= SEQUENCE {
    year SEQUENCE { -- contains yearRangeStartYear and yearRangeEndYear R
        yearRangeStartYear INTEGER (2000..2127,...),
        yearRangeEndYear   INTEGER (2000..2127,...)
    } OPTIONAL,
    month-day SEQUENCE { -- contains dateRangeStartMonth&Date and dateRangeEndMonth&Date
        dateRangeStartMonth&Date MonthDay,
        dateRangeEndMonth&Date   MonthDay
    } OPTIONAL,
    repeatingPeriodDayTypes RPDT OPTIONAL,
    hourMinutes SEQUENCE { -- contains timeRangeStartTime and timeRangeEndTime
        timeRangeStartTime HoursMinutes,
        timeRangeEndTime   HoursMinutes
    } OPTIONAL,
    dateRangeOfWeek      DayOfWeek OPTIONAL,
    durationHour&minute  HoursMinutes OPTIONAL
}

MonthDay ::= SEQUENCE {
    month INTEGER (1..12),
    day   INTEGER (1..31)
}
```

```

RPDT ::= BIT STRING {national-holiday (0), even-days(1), odd-days(2), market-day(3) } (SIZE
(4))
HoursMinutes ::= SEQUENCE {
    hours      INTEGER (0..23), -- number of hours after midnight
    mins       INTEGER (0..59) -- number of minutes after the hour
}
DayOfWeek ::= BIT STRING {unused(0), monday(1), tuesday(2), wednesday(3), thursday(4),
friday(5), saturday(6), sunday(7)} (SIZE (8))
International Sign-exemptedApplicablePeriod ::= International Sign-applicablePeriod
International Sign-directionalFlowOfLane ::= INTEGER {
    SDL      (1), -- Straight Direction Only
    sLT      (2), -- Straight and Left Turn Only
    sRT      (3), -- Straight and Right Turn Only
    lTO      (4), -- Left Turn Only
    rTO      (5), -- Right Turn Only
    cLL      (6), -- Convergence from the Left Lane
    cRI      (7), -- Convergence from the Right Lane
    oVL      (8) -- Oncoming Vehicles Lane
} (1..8)
International Sign-applicableVehicleDimensions ::= SEQUENCE{
    vehicleHeight      Distance OPTIONAL,
    vehicleWidth       Distance OPTIONAL,
    vehicleLength      Distance OPTIONAL,
    vehicleWeight      Weight OPTIONAL,
}
International Sign-speedLimits ::= SEQUENCE{
    speedLimitMax      INTEGER(0..250) OPTIONAL,
    speedLimitMin      INTEGER(0..250) OPTIONAL,
    unit               code-Units (0..1)
}
code-Units ::= INTEGER {
    kmperh              (0),
    milesperh           (1),
    kilometre           (2),
    metre               (3),
    decimetre           (4),
    centimetre          (5),
    mile                (6),
    yard                (7),
    foot                (8),
    minutesOfTime       (9),
    tonnes              (10), -- 1000 kg, not Ton!
    hundredkg           (11),
    pound               (12), -- lbs
    rateOfIncline       (13),
    durationinminutes   (14),
    -- value 15 reserved for future use
} (0..15)
Distance ::= SEQUENCE{
    value              INTEGER(1..16384),
    unit               code-Units(2..4|6..8)
}
DistanceOrDuration ::= SEQUENCE {
    value INTEGER(1..16384),
    unit code-Units (2..9)
}
Weight ::= SEQUENCE {
    value INTEGER(1..16384),
    unit code-Units (10..12)
}
International Sign-rateOfIncline ::= INTEGER(1..32)

International Sign-distanceBetweenVehicles ::= Distance

International Sign-distinationInformation ::= SEQUENCE{
    junctionDirection      INTEGER(1..128) OPTIONAL,
    roundaboutCwDirection  INTEGER(1..128) OPTIONAL,
    roundaboutCcwDirection INTEGER(1..128) OPTIONAL,
    ioList                  SEQUENCE (SIZE (1..8,...)) OF distinationInformation_IO
}
distinationInformation_IO ::= SEQUENCE{

```



```

        arrowDirection          INTEGER(0..7),
        destPlace               SEQUENCE (SIZE (1..4,...)) OF DestinationPlace OPTIONAL,
        destRoad                SEQUENCE (SIZE (1..4,...)) OF DestinationRoad OPTIONAL,
        roadNumberIdentifier     INTEGER(1..999) OPTIONAL,
        streetName              INTEGER(1..999) OPTIONAL,
        streetNameText          UTF8String OPTIONAL,
        distanceToDivergingPoint DistanceOrDuration OPTIONAL,
        distanceToDestinationPlace DistanceOrDuration OPTIONAL
    }
DestinationPlace::= SEQUENCE{
    destType      destinationType,
    destRSCode    ISO 14823Code (WITH COMPONENTS {..., attributes
        ABSENT}),OPTIONAL,
    destBlob      OCTET STRING OPTIONAL,
    placeNameIdentifier    INTEGER(1..999) OPTIONAL,
    placeNameText    UTF8String OPTIONAL
}
DestinationRoad::= SEQUENCE{
    derType      destinationRoadType,
    roadNumberIdentifier    INTEGER(1..999) OPTIONAL,
    roadNumberText    UTF8String OPTIONAL
}
destinationRoadType::= INTEGER {
    none          (0),
    nationalHighway    (1),
    localHighway      (2),
    tollExpresswayMotorway    (3),
    internationalHighway    (4),
    highway           (5),
    expressway        (6),
    nationalRoad      (7),
    regionalProvincialRoad    (8),
    localRoad         (9),
    motorwayJunction  (10),
    diversion          (11),
    rfu1              (12),
    rfu2              (13),
    rfu3              (14),
    rfu4              (15)
} (0..15, ...)
destinationType::= 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, ...)
International Sign-sec::= SEQUENCE{
    startingPoint&Length    Distance OPTIONAL,
    continuity&Length       Distance OPTIONAL
}
International Sign-numberOfLane::= INTEGER(0..99)
END

```

Annex B (normative)

Attributes of GDD

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

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

Table B.1 — List of Attributes

Attributes	Definition
International Sign-applicablePeriod	Time period during which the associated International Sign is valid.
International SignexemptedApplicablePeriod	Exempted time period during which the associated International Sign is valid.
International Sign-section	A carriageway section within which the International Sign takes effect.
International Sign-numberOfLane	The number of lanes and lane numbers from the outer side to the inner side of the considered carriageway, the number 0 designating the outer-most drivable lane in each direction.
International Sign-directional-FlowOfLane	Information of directional flow of lane.
International Sign-applicableVehicleDimensions	The dimensional limitations or regulations for vehicles.
International Sign-speedLimits	The limit values of vehicle speeds.
International Sign-rateOfIncline	The rate of incline of a road expressed as a percentage.
International Sign-distanceBetweenVehicles	The minimum value of distance between vehicles.
International Sign-destinationInformation	Route information elements of direction, destination, distance and other related items which can be used mainly for specifying informative signs.

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

Table B.2 — List of Qualifiers

Attributes	Qualifier	Definition	Data type
	yearRangeStartYear	Time period of start year.	INTEGER (2000..2027,...)
	yearRangeEndYear	Time period of end year.	INTEGER (2000..2027,...)
	dateRangeStart-Month&Date	A calendar date expressed as the start month and day in local time.	SEQUENCE { month INTEGER(1..12), day INTEGER(1..31) }
	dateRangeEnd-Month&Date	A calendar date expressed as the end month and day in local time.	SEQUENCE { month INTEGER(1..12), day INTEGER(1..31) }
	repeatingPeriodDay-Types	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) } (SIZE (4))

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
International Sign-yearRange-StartYear	timeRangeStartTime	Start time period bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
	timeRangeEndTime	End time period bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
	dateRangeOfWeek	A start day of the week assigned according to 'ISO 8601' is expressed by a bitstring. When the bit is set to one, the day is selected. Assigned according to 'ISO 8601'	BIT STRING { unused(0), monday(1), tuesday(2), wednesday(3), thursday(4), friday(5), saturday(6), sunday(7) } (SIZE (8))
	durationHour&min- ute	Duration time bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
International Sign-exemptedApplicablePeriod	yearRangeStartYear	Exempted time period of start year.	INTEGER (2000..2027,...)
	yearRangeEndYear	Exempted time period of end year.	INTEGER (2000..2027,...)
	dateRangeStart-Month&Date	Exempted calendar date expressed as the start month and day in local time.	SEQUENCE { month INTEGER(1..12), day INTEGER(1..31) }
	dateRangeEnd-Month&Date	Exempted calendar date expressed as the end month and day in local time.	SEQUENCE { month INTEGER(1..12), day INTEGER(1..31) }
	repeatingPeriodDay-Types	The exempted day types (e.g. holidays) on which the RepeatingPeriod may be active.	BIT STRING { national-holiday (0), even-days(1), odd-days(2), market-day(3) } (SIZE (4))
	timeRangeStartTime	Exempted start time period bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
	timeRangeEndTime	Exempted end time period bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
	dateRangeOfWeek	Exempted start day of the week assigned according to 'ISO 8601' is 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))
	durationHour&min- ute	Exempted duration time bounded by two inclusive times.	SEQUENCE { hours INTEGER(0..23), mins INTEGER(0..59) }
International Sign-section	starting- Point&Length	Starting point of a roadway section within which the sign takes effect.	SEQUENCE { value INTEGER(1..16384), unit code-Units(2..4 6..8) }
	continuity&Length	Continuity and length of a roadway section within which the sign takes effect.	SEQUENCE { value INTEGER(1..16384), unit code-Units(2..4 6..8) }
International Signnumber- OfLane	No qualifier is needed.	The number of lanes and lane numbers from the left in the travelling direction of vehicles.	INTEGER(0..99)
International Sign-direction- alFlowOfLane	No qualifier is needed.	Valid traffic movements that can be made from a travel lane.	INTEGER { sDL (1), -- Straight Direction Only sLT (2), -- Straight and Left Turn Only sRT (3), -- Straight and Right Turn Only lTO (4), -- Left Turn Only rTO (5), -- Right Turn Only cLL (6), -- Convergence from the Left Lane cRI (7), -- Convergence from the Right Lane oVL (8) -- Oncoming Vehicles Lane } (1..8)

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
International Sign-applicable-VehicleDimensions	vehicleHeight	Vehicle height limit to which the associated InternationalSign applies.	SEQUENCE { value INTEGER(1..16384), unit code-Units(2..4 6..8) }
	vehicleWidth	Vehicle width limit to which the associated InternationalSign applies.	SEQUENCE { value INTEGER(1..16384), unit code-Units(2..4 6..8) }
	vehicleWeight	Vehicle weight limit or Vehicle axle weight limit to which the associated InternationalSign applies.	SEQUENCE { value INTEGER(1..16384), unit code-Units(10..12) }
	vehicleLength	Vehicle length limit to which the associated InternationalSign applies.	SEQUENCE { value INTEGER(1..16384), unit code-Units(2..4 6..8) }
International Sign-speedLimits	speedLimitMax	Maximum speed limit associated with the InternationalSign.	SEQUENCE { value INTEGER(1..250), unit code-Units(0..1) }
	speedLimitMin	Minimum speed limit associated with the InternationalSign.	SEQUENCE { value INTEGER(1..250), unit code-Units(0..1) }
International Sign-rateOfIncline	No qualifier is needed.	The rate of incline as a percentage to be displayed on the InternationalSign.	INTEGER(1..32)
International Sign-distanceBetweenVehicles	No qualifier is needed.	Distance between vehicles (i.e. vehicular gap) limit associated with the InternationalSign.	SEQUENCE { value INTEGER(1..16384), unit code-Units(2..9) }
	junctionDirection	Valid directions for a junction-type diverging point shown on the InternationalSign.	INTEGER(1..128)
	roundaboutCwDirection	Valid directions for the clockwise roundabout-type diverging point on the InternationalSign.	INTEGER(1..128)
	roundaboutCcwDirection	Valid directions for the counter-clockwise (anti-clockwise) roundabout-type diverging point shown on the InternationalSign.	INTEGER(1..128)
	arrowDirection	Direction of the arrow associated with the SignDestination.	INTEGER(0..7)

Table B.2 (continued)

Attributes	Qualifier	Definition	Data type
International Sign-destinationInformation	destinationRoadType	Code that indicates the type of roadway.	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, ...)
	destinationType	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, ...)
	roadNumberIdentifier	An identifier of the road using integer.	INTEGER(1..999)
	roadNumberText	An identifier of the road using text.	UTF8String
	exitNumber	An identifier of the exit to take in order to reach the destination.	INTEGER(1..999)
	streetName	A street name using integer.	INTEGER(1..999)
	streetNameText	A street name using text.	UTF8String
	placeNameIdentification	Place name identification using integer.	INTEGER(1..999)
	destBlob	Additional information associated to a destination place such as an image.	OCTET STRING
	placeNameText	Place name using text.	UTF8String
International Sign-destinationInformation	distanceToDivergingPoint	Distance to the diverging point.	SEQUENCE { value INTEGER(1..16384), unit code-Units(2..9) }
	distanceToDestinationPlace	Distance to the destination place.	SEQUENCE { value INTEGER(1..16384), unit code-Units(2..9) }