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## Intelligent transport systems — Graphic data dictionary

*Systèmes de transport intelligents — Dictionnaire de données  
graphiques*

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## Foreword

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

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

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# 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/<br>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<br>(Crossroads)             | Warning of the existence of a cross-shaped intersection ahead.                           |
|                  | 112                 | Intersection where the priority is prescribed by the general priority rule<br>(Side road right)        | Warning of the existence of a side road ahead.                                           |
|                  | 113                 | Intersection where the priority is prescribed by the general priority rule<br>(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<br>(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<br>(Y intersection)         | Warning of a Y-shaped level intersection ahead.                                          |
|                  | 118                 | Intersection where the priority is prescribed by the general priority rule<br>(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<br>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 |                                                                                                         |                                                                                                                                                                                                                |
|                  | <b>134</b>          | Intersection with a road the users of which must give way<br>T-shaped crossing right                    | Warning of a priority road at reversed T-shaped crossing.                                                                                                                                                      |
|                  | <b>135</b>          | Intersection with a road the users of which must give way<br>T-shaped crossing of fork type Lower left  | Warning of a priority road at T-shaped crossing of fork type (lower left) ahead.                                                                                                                               |
|                  | <b>136</b>          | Intersection with a road the users of which must give way<br>T-shaped crossing of fork type Lower right | Warning of a priority road at reversed T-shaped crossing of fork type (lower right) ahead.                                                                                                                     |
|                  | <b>137~147</b>      | Reserved for future use.                                                                                |                                                                                                                                                                                                                |
|                  | <b>148</b>          | Warning of roundabout (Clockwise)                                                                       | Warning of a clockwise roundabout ahead.                                                                                                                                                                       |
|                  | <b>149</b>          | Warning of roundabout (Anti-clockwise)                                                                  | Warning of an anti-clockwise roundabout ahead.                                                                                                                                                                 |
|                  | <b>150~160</b>      | Reserved for future use.                                                                                |                                                                                                                                                                                                                |
|                  | <b>161</b>          | Dangerous bend (right bend)                                                                             | Warning of a dangerous single curve to the right ahead.                                                                                                                                                        |
|                  | <b>162</b>          | Dangerous bend (left bend)                                                                              | Warning of a dangerous single curve to the left ahead.                                                                                                                                                         |
|                  | <b>163~173</b>      | Reserved for future use.                                                                                |                                                                                                                                                                                                                |
|                  | <b>174</b>          | 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. |
|                  | <b>175</b>          | 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.   |
|                  | <b>176~186</b>      | Reserved for future use.                                                                                |                                                                                                                                                                                                                |
|                  | <b>187</b>          | Reverse curve (right and left)                                                                          | Warning of a combination of two curves (right and left) ahead (S-bend).                                                                                                                                        |
|                  | <b>188</b>          | Reverse curve (left and right)                                                                          | Warning of a combination of two curves (left and right) ahead (S-bend).                                                                                                                                        |
|                  | <b>189~210</b>      | Reserved for future use.                                                                                |                                                                                                                                                                                                                |
|                  | <b>211</b>          | Dangerous bend (Double bend, right)                                                                     | Warning of dangerous double or multiple bends which start with a right curve.                                                                                                                                  |
|                  | <b>212</b>          | Dangerous bend (Double bend, left)                                                                      | Warning of dangerous double or multiple bends which start with a left curve.                                                                                                                                   |
|                  | <b>213~223</b>      | Reserved for future use.                                                                                |                                                                                                                                                                                                                |
|                  | <b>224</b>          | Winding road (first to the right)                                                                       | Warning of a winding section, which start with a right curve.                                                                                                                                                  |
|                  | <b>225</b>          | 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 |                                                       |                                                                                                                                      |
|                  | <b>226~235</b>      | Reserved for future use.                              |                                                                                                                                      |
|                  | <b>236</b>          | Level crossing with gate or barrier                   | Warning of the existence of a level railway crossing with gates or barrier ahead.                                                    |
|                  | <b>237</b>          | Other level-crossing                                  | Warning of a level railroad crossing point without gate or barrier ahead.                                                            |
|                  | <b>238</b>          | Intersection with a tramway line                      | Warning of a road with a tramway line ahead.                                                                                         |
|                  | <b>239</b>          | 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.    |
|                  | <b>241</b>          | Pedestrian crossing (right)                           | Warning of an area where pedestrians frequently pass by and cross the road from the right side.                                      |
|                  | <b>242</b>          | 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.                                    |
|                  | <b>243</b>          | Reserved for future use.                              |                                                                                                                                      |
|                  | <b>244</b>          | 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. |
|                  | <b>245</b>          | Pedestrians crossing (left)                           | Warning of a crosswalk where pedestrians frequently pass by and cross the road from the left side.                                   |
|                  | <b>246</b>          | Pedestrian crossing ahead (left)                      | Warning of a crosswalk where pedestrians frequently pass by and cross the road from the left side.                                   |
|                  | <b>247</b>          | Pedestrian crossing ahead (right)                     | Warning of a crosswalk where pedestrians frequently pass by and cross the road from the right side.                                  |
|                  | <b>248~252</b>      | Reserved for future use.                              |                                                                                                                                      |
|                  | <b>253</b>          | Light signals                                         | Warning of a signal-controlled crossing ahead where signal(s) are invisible or hard to identify from a distant point.                |
|                  | <b>254</b>          | Slippery road                                         | Warning of a slippery road surface that may hinder travelling at normal speeds.                                                      |
|                  | <b>255</b>          | Falling rocks (left)                                  | Warning of the possibility of falling rocks or the presence of fallen rocks on road surface from the left side.                      |
|                  | <b>256</b>          | Loose gravel                                          | Warning of an unpaved section with loose gravel on the surface that may hinder travelling at normal speeds.                          |
|                  | <b>257</b>          | Dangerous shoulders                                   | Warning of a dangerous road shoulder.                                                                                                |
|                  | <b>258</b>          | Falling rocks (right)                                 | Warning of the possibility of falling rocks or the presence of fallen rocks on road surface (right).                                 |
|                  | <b>259~267</b>      | Reserved for future use.                              |                                                                                                                                      |
|                  | <b>268</b>          | Uneven road                                           | Warning of a bumpy section ahead that may hinder travelling at normal speeds.                                                        |
|                  | <b>269</b>          | 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.                   |
|                  | <b>271</b>          | Uneven road (dip)                                     | Warning of a section with a large single dip on road surface ahead that may hinder travelling at normal speeds.                      |
|                  | <b>272~282</b>      | Reserved for future use.                              |                                                                                                                                      |
|                  | <b>283</b>          | 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 |                                      |                                                                                                                |
|                  | <b>285</b>          | Traffic merging from left            | Warning of a merge of an inflow lane from the left into through traffic.                                       |
|                  | <b>286~295</b>      | Reserved for future use.             |                                                                                                                |
|                  | <b>296</b>          | Carriageway narrows from the right   | Warning that the number of lanes is reduced from the right.                                                    |
|                  | <b>297</b>          | Carriageway narrows from the left    | Warning that the number of lane is reduced from the left.                                                      |
|                  | <b>298~318</b>      | Reserved for future use.             |                                                                                                                |
|                  | <b>319</b>          | Carriageway narrows                  | Warning that the width of the carriageway is reduced.                                                          |
|                  | <b>320~331</b>      | Reserved for future use.             |                                                                                                                |
|                  | <b>332</b>          | Two-way traffic                      | Warning that the approaching road is for two-way traffic.                                                      |
|                  | <b>333~345</b>      | Reserved for future use.             |                                                                                                                |
|                  | <b>346</b>          | Steep ascent                         | Warning that there is a steep hill upwards with the indicated rate of incline (%).                             |
|                  | <b>347</b>          | Dangerous descent                    | Warning that there is a steep dangerous hill downwards with the indicated rate of incline (%).                 |
|                  | <b>348</b>          | Road works                           | Warning that there is a section under road construction or repairs ahead.                                      |
|                  | <b>349~360</b>      | Reserved for future use.             |                                                                                                                |
|                  | <b>361</b>          | Cross-wind (left)                    | Warning of the possibility of sudden side wind that may hinder travelling at normal speeds from the left side. |
|                  | <b>362</b>          | Airfield (right)                     | Warning of the existence of low flying aircraft or sudden aircraft noise, (right).                             |
|                  | <b>363</b>          | Wild animal crossing (right)         | Warning of the possibility of wild animals crossing the road from the right hand side.                         |
|                  | <b>364</b>          | Domestic animal crossing (right)     | Warning of the possibility of domestic animal crossing the road from the right hand side.                      |
|                  | <b>365</b>          | Cross-wind (right)                   | Warning of the possibility of cross-wind, right.                                                               |
|                  | <b>366</b>          | Airfield (left)                      | Warning of the existence of low flying aircraft or sudden aircraft noise, (left).                              |
|                  | <b>367</b>          | Wild animal crossing (right) (left)  | Warning of the possibility of wild animals, crossing from the left side.                                       |
|                  | <b>368</b>          | Domestic animal crossing (left)      | Warning of the possibility of domestic animal crossing from the left side.                                     |
|                  | <b>369~377</b>      | Reserved for future use.             |                                                                                                                |
|                  | <b>378</b>          | Swing bridge                         | Warning of an opening or swing bridge ahead.                                                                   |
|                  | <b>379</b>          | Road leads to quayside or river bank | Warning of a quayside or river bank ahead.                                                                     |
|                  | <b>381</b>          | Cyclist entering or crossing (right) | Warning of a cycle route from the right side.                                                                  |
|                  | <b>382</b>          | Cyclist entering or crossing (left)  | Warning of a cycle route from the left side.                                                                   |
|                  | <b>383~394</b>      | Reserved for future use.             |                                                                                                                |
|                  | <b>395</b>          | 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 |                                                                      |                                                                                                                                                                                       |
|                  | <b>396</b>         | 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. |
|                  | <b>397</b>         | Warning for an automatically rising bollard                          | Warning of an automatically deployed bollard that may rise from the road surface.                                                                                                     |
|                  | <b>398</b>         | Warning for wrong way driving                                        | Warning of wrong way driving in the situation where drivers may misunderstand the direction for driving.                                                                              |
|                  | <b>399</b>         | Stop ahead                                                           | Warning of a crossing where drivers must stop ahead.                                                                                                                                  |
|                  | <b>400~410</b>     | Reserved for future use.                                             |                                                                                                                                                                                       |
|                  | <b>411</b>         | Level-crossings (vertically long)                                    | Warning of a vertically long level-crossings ahead.                                                                                                                                   |
|                  | <b>412</b>         | Level-crossings (horizontally long)                                  | Warning of a horizontally long level-crossings ahead.                                                                                                                                 |
|                  | <b>413</b>         | Level-crossings<br>Two or more tracks (vertically long)              | Warning of a vertically long level-crossings for two or more tracks ahead.                                                                                                            |
|                  | <b>414</b>         | Level-crossings<br>Two or more tracks (horizontally long)            | Warning of a horizontally long level-crossings for two or more tracks ahead.                                                                                                          |
|                  | <b>415</b>         | 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.                                                                                                   |
|                  | <b>415~997</b>     | Reserved for future use.                                             |                                                                                                                                                                                       |
|                  | <b>998</b>         | Caution                                                              | Indicates auxiliary sign to alert.                                                                                                                                                    |
|                  | <b>999</b>         | 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                                                                                 |
|                  | <b>616</b>         | General speed limit                                              | Notice of a general speed limit in force in a country or in a subdivision of that country. |
|                  | <b>617~620</b>     | Reserved for future use.                                         |                                                                                            |
|                  | <b>621</b>         | Driving on tram track permitted                                  | Notice that vehicles can drive on tram track.                                              |
|                  | <b>622</b>         | Stopping permitted                                               | Notice that stopping is permitted in the zone.                                             |
|                  | <b>623~630</b>     | Reserved for future use.                                         |                                                                                            |
|                  | <b>631</b>         | Distance to regulated road or of the zone                        | Notice of Distance to regulated road or of the zone.                                       |
|                  | <b>632</b>         | 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.                |
|                  | <b>633</b>         | Prohibition begins at this point                                 | Notice of prohibition begins at this point.                                                |
|                  | <b>634</b>         | Prohibition repeats at this point                                | Notice of prohibition repeats at this point.                                               |
|                  | <b>635</b>         | Prohibition ends at this point                                   | Notice of prohibition ends at this point.                                                  |
|                  | <b>636</b>         | Regulation for particular road users                             | Notice of regulation for particular road users.                                            |
|                  | <b>637</b>         | Regulation exception for a certain category of road users        | Notice of regulation exception for a certain category of road users.                       |
|                  | <b>638~710</b>     | Reserved for future use.                                         |                                                                                            |
|                  | <b>711</b>         | Direction to be followed (left)                                  | Travel to the left direction only.                                                         |
|                  | <b>712</b>         | Direction to be followed (right)                                 | Travel to the right direction only.                                                        |
|                  | <b>713</b>         | Direction to be followed straight ahead                          | Travel straight ahead.                                                                     |
|                  | <b>714</b>         | Direction to be followed (right turn)                            | Right turn only.                                                                           |
|                  | <b>715</b>         | Direction to be followed (left turn)                             | Left turn only.                                                                            |
|                  | <b>716</b>         | Direction to be followed (right, straight)                       | Straight ahead or right turn only.                                                         |
|                  | <b>717</b>         | Direction to be followed (left, straight)                        | Straight Ahead or left turn only.                                                          |
|                  | <b>718</b>         | Pass this side (right side)                                      | Pass to the right.                                                                         |
|                  | <b>719</b>         | Pass this side (left side)                                       | Pass to the left.                                                                          |
|                  | <b>721</b>         | Direction to be followed (both sides)                            | Right turn or left turn only.                                                              |
|                  | <b>723</b>         | Pass this side (both sides)                                      | Pass either side.                                                                          |
|                  | <b>724</b>         | Compulsory direction for vehicles carrying dangerous goods       |                                                                                            |
|                  | <b>725~742</b>     | 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 | Pictogram 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                                                                                                    |
|                  | <b>190~221</b>      | Reserved for future use.                                         |                                                                                                               |
|                  | <b>222</b>          | Direction signs showing the entrance of motorway                 | Notice of the direction of a motorway entrance with indication of the motorway name.                          |
|                  | <b>223</b>          | 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. |
|                  | <b>224</b>          | Direction signs showing the exit of motorway                     | Notice of the direction of a motorway exit with indications of place name and exit number.                    |
|                  | <b>225</b>          | Signs assigning the lane for the place on the motorway           | Notice of the destination of a lane to be taken.                                                              |
|                  | <b>226</b>          | 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.            |
|                  | <b>227~325</b>      | Reserved for future use.                                         |                                                                                                               |
|                  | <b>326</b>          | National/state highway number                                    | Notice of the road number of a national/interstate highway.                                                   |
|                  | <b>327</b>          | Local highway number                                             | Notice of the road number of a local highway.                                                                 |
|                  | <b>328~524</b>      | Reserved for future use.                                         |                                                                                                               |
|                  | <b>525</b>          | No through road (front)                                          | Notice of dead-end of the road ahead.                                                                         |
|                  | <b>526</b>          | No through road                                                  | Notice of dead-end of the connecting road at the next junction.                                               |
|                  | <b>527~537</b>      | Reserved for future use.                                         |                                                                                                               |
|                  | <b>538</b>          | Priority over oncoming traffic                                   | Notices that the following direction has the right-of-way over oncoming traffic on narrow sections ahead.     |
|                  | <b>539</b>          | Access permitted                                                 | Notices that access is permitted.                                                                             |
|                  | <b>540~610</b>      | Reserved for future use.                                         |                                                                                                               |
|                  | <b>611</b>          | Number and direction of traffic lanes                            |                                                                                                               |
|                  | <b>612</b>          | Lane ends                                                        | Notices that the left lane ends at a point ahead.                                                             |
|                  | <b>613</b>          | Lane divergence                                                  | Notices that the lane diverges at a point ahead.                                                              |
|                  | <b>614</b>          | Trucks prohibited from this lane                                 | Notice that trucks prohibited from this lane.                                                                 |
|                  | <b>615</b>          | Trucks prohibited from main lanes                                | Notice that trucks prohibited from main lanes.                                                                |
|                  | <b>616</b>          | Trucks prohibited from diverging lane                            | Notice that trucks prohibited from diverging lane.                                                            |
|                  | <b>617</b>          | Advance direction sign for route to be followed                  | Notice of route to be followed.                                                                               |
|                  | <b>618</b>          | Detour                                                           | Notice that route detour ahead.                                                                               |
|                  | <b>619</b>          | Crawler lane                                                     | Notice of crawler lane.                                                                                       |
|                  | <b>621</b>          | Escape lane (right type)                                         | Notice of an escape lane right ahead.                                                                         |
|                  | <b>622</b>          | Escape lane (left type)                                          | Notice of an escape lane left ahead.                                                                          |
|                  | <b>623</b>          | One-way street                                                   | Notice of one-way street ahead.                                                                               |
|                  | <b>624</b>          | Lane convergence                                                 | Notice of lane convergence ahead.                                                                             |
|                  | <b>625</b>          | Reserved for future use.                                         |                                                                                                               |
|                  | <b>643</b>          | 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                                                                                                              |
|                  | <b>117~124</b>     | Reserved for future use.                  |                                                                                                                         |
|                  | <b>125</b>         | Maintenance service                       | Indicates the existence/location of a maintenance service station.                                                      |
|                  | <b>126</b>         | Breakdown service                         | Indicates the existence/location of a breakdown service station.                                                        |
|                  | <b>127</b>         | Place to inflate a tyre                   | Indicates the place to inflate a tyre.                                                                                  |
|                  | <b>128</b>         | Filling station                           | Indicates the existence/location of a filling station.                                                                  |
|                  | <b>129</b>         | Filling station (+LPG)                    | Indicates the existence/location of a filling station where LPG is available.                                           |
|                  | <b>130~144</b>     | Reserved for future use.                  |                                                                                                                         |
|                  | <b>145</b>         | Public lavatory                           | Indicates the existence/location of a public lavatory.                                                                  |
|                  | <b>146</b>         | Restroom for wheelchair user              | Indicates the existence/location of a restroom for wheelchair user.                                                     |
|                  | <b>147</b>         | Radio stations giving traffic information | Indicates the provision of a radio stations giving traffic information.                                                 |
|                  | <b>148</b>         | Beach or swimming pool                    | Indicates the existence/location of a beach or swimming pool.                                                           |
|                  | <b>147~160</b>     | Reserved for future use.                  |                                                                                                                         |
|                  | <b>161</b>         | Restaurant                                | Indicates the existence/location of a restaurant.                                                                       |
|                  | <b>162</b>         | Refreshment stand/Cafeteria               | Indicates the existence/location of a refreshment stand or cafeteria.                                                   |
|                  | <b>163</b>         | Service area                              | Indicates the existence/location of a service area (with no description of services provided).                          |
|                  | <b>164</b>         | Postal office                             | Indicates the existence/location of a postal office.                                                                    |
|                  | <b>165~179</b>     | Reserved for future use.                  |                                                                                                                         |
|                  | <b>181</b>         | Hotel or Motel                            | Indicates the existence/location of a hotel or motel.                                                                   |
|                  | <b>182</b>         | Hotel/Motel for wheelchair user           | Indicates that the Hotel/Motel is available for wheelchair user.                                                        |
|                  | <b>183</b>         | Youth hostel                              | Indicates the existence/location of a youth hostel.                                                                     |
|                  | <b>184</b>         | Youth hostel for wheelchair user          | Indicates the youth hostel is available for wheel chair user.                                                           |
|                  | <b>185</b>         | Camping site                              | Indicates the existence/location of a camping site.                                                                     |
|                  | <b>186</b>         | Caravan site                              | Indicates the existence/location of a caravan site.                                                                     |
|                  | <b>187</b>         | Camping and caravan site                  | Indicates the existence/location of camping and caravan sites.                                                          |
|                  | <b>188</b>         | Recreational vehicle sanitary station     | Indicates the availability of facilities designed for the use of dumping wastes from recreational vehicle holding tank. |
|                  | <b>189</b>         | Picnic site                               | Indicates the existence/location of a roadside picnic site.                                                             |
|                  | <b>191</b>         | Playground for children                   | Indicates the existence/location of a playground for children.                                                          |
|                  | <b>192</b>         | Starting-point for walks                  | Indicates the existence/location of a starting point for walking.                                                       |
|                  | <b>193</b>         | Relaxation area                           | Indicates the existence/location of a relaxation area.                                                                  |
|                  | <b>194</b>         | 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 outermost 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 {<br>month INTEGER(1..12),<br>day INTEGER(1..31)<br>}                                          |
|            | dateRangeEnd-Month&Date   | A calendar date expressed as the end month and day in local time.          | SEQUENCE {<br>month INTEGER(1..12),<br>day INTEGER(1..31)<br>}                                          |
|            | repeatingPeriodDay-Types  | The day types (e.g. holidays) on which the repeating period may be active. | BIT STRING {<br>national-holiday (0),<br>even-days(1),<br>odd-days(2),<br>market-day(3)<br>} (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 {<br>hours INTEGER(0..23),<br>mins INTEGER(0..59)<br>}                                                                                     |
|                                             | timeRangeEndTime          | End time period bounded by two inclusive times.                                                                                                                         | SEQUENCE {<br>hours INTEGER(0..23),<br>mins INTEGER(0..59)<br>}                                                                                     |
|                                             | 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 {<br>unused(0),<br>monday(1),<br>tuesday(2),<br>wednesday(3),<br>thursday(4),<br>friday(5),<br>saturday(6),<br>sunday(7)<br>} (SIZE (8)) |
|                                             | durationHour&min-<br>ute  | Duration time bounded by two inclusive times.                                                                                                                           | SEQUENCE {<br>hours INTEGER(0..23),<br>mins INTEGER(0..59)<br>}                                                                                     |
| 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 {<br>month INTEGER(1..12),<br>day INTEGER(1..31)<br>}                                                                                      |
|                                             | dateRangeEnd-Month&Date   | Exempted calendar date expressed as the end month and day in local time.                                                                                                | SEQUENCE {<br>month INTEGER(1..12),<br>day INTEGER(1..31)<br>}                                                                                      |
|                                             | repeatingPeriodDay-Types  | The exempted day types (e.g. holidays) on which the RepeatingPeriod may be active.                                                                                      | BIT STRING {<br>national-holiday (0),<br>even-days(1),<br>odd-days(2),<br>market-day(3)<br>} (SIZE (4))                                             |
|                                             | timeRangeStartTime        | Exempted start time period bounded by two inclusive times.                                                                                                              | SEQUENCE {<br>hours INTEGER(0..23),<br>mins INTEGER(0..59)<br>}                                                                                     |
|                                             | timeRangeEndTime          | Exempted end time period bounded by two inclusive times.                                                                                                                | SEQUENCE {<br>hours INTEGER(0..23),<br>mins INTEGER(0..59)<br>}                                                                                     |

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 {<br>unused(0),<br>monday(1),<br>tuesday(2),<br>wednesday(3),<br>thursday(4),<br>friday(5),<br>saturday(6),<br>sunday(7)<br>} (SIZE (8))                                                                                                                                                                                                |
|                                                  | durationHour&min-<br>ute  | Exempted duration time bounded by two inclusive times.                                                                                        | SEQUENCE {<br>hours INTEGER(0..23),<br>mins INTEGER(0..59)<br>}                                                                                                                                                                                                                                                                                    |
| International<br>Sign-section                    | starting-<br>Point&Length | Starting point of a roadway section within which the sign takes effect.                                                                       | SEQUENCE {<br>value INTEGER(1..16384),<br>unit code-Units(2..4 6..8)<br>}                                                                                                                                                                                                                                                                          |
|                                                  | continuity&Length         | Continuity and length of a roadway section within which the sign takes effect.                                                                | SEQUENCE {<br>value INTEGER(1..16384),<br>unit code-Units(2..4 6..8)<br>}                                                                                                                                                                                                                                                                          |
| International<br>Signnumber-<br>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<br>Sign-direction-<br>alFlowOfLane | No qualifier is needed.   | Valid traffic movements that can be made from a travel lane.                                                                                  | INTEGER {<br>sDL (1), -- Straight Direction Only<br>sLT (2), -- Straight and Left Turn Only<br>sRT (3), -- Straight and Right Turn Only<br>lTO (4), -- Left Turn Only<br>rTO (5), -- Right Turn Only<br>cLL (6), -- Convergence from the Left Lane<br>cRI (7), -- Convergence from the Right Lane<br>oVL (8) -- Oncoming Vehicles Lane<br>} (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 {<br>value INTEGER(1..16384),<br>unit code-Units(2..4 6..8)<br>} |
|                                                 | vehicleWidth            | Vehicle width limit to which the associated InternationalSign applies.                                                      | SEQUENCE {<br>value INTEGER(1..16384),<br>unit code-Units(2..4 6..8)<br>} |
|                                                 | vehicleWeight           | Vehicle weight limit or Vehicle axle weight limit to which the associated InternationalSign applies.                        | SEQUENCE {<br>value INTEGER(1..16384),<br>unit code-Units(10..12)<br>}    |
|                                                 | vehicleLength           | Vehicle length limit to which the associated InternationalSign applies.                                                     | SEQUENCE {<br>value INTEGER(1..16384),<br>unit code-Units(2..4 6..8)<br>} |
| International Sign-speedLimits                  | speedLimitMax           | Maximum speed limit associated with the InternationalSign.                                                                  | SEQUENCE {<br>value INTEGER(1..250),<br>unit code-Units(0..1)<br>}        |
|                                                 | speedLimitMin           | Minimum speed limit associated with the InternationalSign.                                                                  | SEQUENCE {<br>value INTEGER(1..250),<br>unit code-Units(0..1)<br>}        |
| 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 {<br>value INTEGER(1..16384),<br>unit code-Units(2..9)<br>}      |
|                                                 | 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 {<br>none (0),<br>nationalHighway (1),<br>localHighway (2),<br>tollMotorwayMotorway (3),<br>internationalHighway (4),<br>highway (5),<br>motorway (6),<br>nationalRoad (7),<br>regionalProvincialRoad (8),<br>localRoad (9),<br>motorwayJunction (10),<br>diversion (11),<br>rfu1 (12),<br>rfu2 (13),<br>rfu3 (14),<br>rfu4 (15),<br>} (0..15, ...)                |
|                                           | destinationType            | Code that indicates the type of area that may serve as a destination on a trip. | INTEGER {<br>none (0),<br>importantArea (1),<br>principalArea (2),<br>generalArea (3),<br>wellKnownPoint (4),<br>country (5),<br>city (6),<br>street (7),<br>industrialArea (8),<br>historicArea (9),<br>touristicArea (10),<br>culturalArea (11),<br>touristicRoute (12),<br>recommendedRoute (13),<br>touristicAttraction (14),<br>geographicArea (15)<br>} (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 {<br>value INTEGER(1..16384),<br>unit code-Units(2..9)<br>}                                                                                                                                                                                                                                                                                                       |
|                                           | distanceToDestinationPlace | Distance to the destination place.                                              | SEQUENCE {<br>value INTEGER(1..16384),<br>unit code-Units(2..9)<br>}                                                                                                                                                                                                                                                                                                       |