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Entwurf

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DIN CEN ISO/TS 14823
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Ersatz für
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**Intelligente Verkehrssysteme –
Graphisches Verzeichnis (ISO/DIS 14823.2:2016);
Englische Fassung prEN ISO 14823:2016**

Intelligent transport systems –
Graphic data dictionary (ISO/DIS 14823.2:2016);
English version prEN ISO 14823:2016

Systèmes de transport intelligents –
Dictionnaire de données graphiques (ISO/DIS 14823.2:2016);
Version anglaise prEN ISO 14823:2016

Anwendungswarnvermerk

Dieser Norm-Entwurf mit Erscheinungsdatum 2016-08-26 wird der Öffentlichkeit zur Prüfung und Stellungnahme vorgelegt.

Weil die beabsichtigte Norm von der vorliegenden Fassung abweichen kann, ist die Anwendung dieses Entwurfs besonders zu vereinbaren.

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Gesamtumfang 54 Seiten

DIN-Normenausschuss Automobiltechnik (NAAutomobil)
DKE Deutsche Kommission Elektrotechnik Elektronik Informationstechnik in DIN und VDE

Nationales Vorwort

Dieses Dokument (prEN ISO 14823:2016) wurde vom Technischen Komitee CEN/TC 278 „Intelligente Verkehrssysteme“ ausgearbeitet, dessen Sekretariat vom NEN (Niederlande) gehalten wird in Verbindung mit dem technischen Komitee ISO/ TC204 „Intelligent Transport Systems“.

Das zuständige deutsche Normungsgremium ist der Gemeinschaftsarbeitsausschuss NA 052-02-71 GA „Intelligente Verkehrssysteme“ des DIN-Normenausschusses Automobiltechnik (NAAutomobil).

Das Präsidium des DIN hat mit seinem Beschluss 1/2004 festgelegt, dass von dem in den Regeln der europäischen Normungsarbeit von CEN/CENELEC verankerten Grundsatz, wonach Europäische Normen in den drei offiziellen Sprachen Deutsch, Englisch und Französisch veröffentlicht werden, in begründeten Ausnahmefällen abgewichen und auf die deutsche Sprachfassung verzichtet werden kann.

Dieser Normenentwurf definiert ein graphisches Datenverzeichnis. Dies wurde mit der Absicht entwickelt, um eine gemeinsame Basis zur Übertragung graphischer Informationen die, unabhängig von Sprache oder regionalen Unterschieden, von Anwendern wie Verkehrskontrollzentren, Verkehrsinformationszentren oder Dienste Anbietern, entschlüsselt und somit verstanden werden können. Die Anpassung einheitlicher Graphikdaten verbessert für den Anwender das Verständnis für grafische Informationen und somit die Anwenderfreundlichkeit von TTI-Systemen.

Änderungen

Gegenüber DIN CEN ISO/TS 14823 (DIN SPEC 70652):2011-08 wurden folgende Änderungen vorgenommen:

- a) Überführung in eine europäische Norm;
- b) Restrukturierung des gesamten Dokumentes;
- c) Ergänzung der Anhänge E und F.

Nationaler Anhang NA (informativ)

Begriffe

4.1

Attribut

(en: Attribute)

die Kodierung, der an das Piktogramm angehängt ist, um die Bedeutung des Piktogramms z. B. durch Zusätze wie Zeit oder Länge oder Richtung zu erklären

4.2

Kategorie-Kodierung

(en: Category code)

die zur Unterscheidung jedes Piktogramms zugeteilte Kodierung, bestehend aus Dienstkategorie-Kodierung und Piktogramm-Kategorie-Kodierung

4.3

Länderkodierung

(en: Country code)

international erkannte Kodierungen, die nach ISO 3166-1:2013 für den Bezug von Ländern und Unterteilungen von Ländern vereinbart wurden

4.4

grafisches Datenverzeichnis

(en: Graphic data dictionary)

Menge von Länderkodierungen, Kategorie-Kodierungen sowie Attributen zur systematischen Katalogisierung von Piktogrammen

4.5

Piktogramm

(en: Pictogram)

Ein Zeichen oder Symbol, welches auf einer Anzeige oder IT-System, wie einem Computer oder einem variablen Botschaftszeichen (en: Variable Message Sign), wiedergegeben wird, um Reisende über Verkehrsregeln oder öffentliche Einrichtungen zu informieren.

4.6

Piktogram Kategorie-Kodierung

(en: Pictogram category code)

Kodierungen, die für eine höher detailliertere Kategorie einer Piktogrammart unter der Dienstkategorie erstellt wurde

4.7

Kennzeichner

(en: Qualifier)

ein Attributparameter, der für die quantitativ ausgedrückte Bedeutung eines Piktogramms verwendet wird

4.8

Dienstkategorie-Kodierung

(en: Service category code)

Kodierung, die zur Unterscheidung der Dienstkategorien, wie eine Regulierung oder öffentliche Einrichtungen, erstellt wurden

— Leerseite —

Contents

Page

Foreword	iv
Introduction	v
1 Scope.....	1
2 Conformance.....	1
3 Normative references	1
4 Terms and definitions	2
4.1 Attribute.....	2
4.2 Category code	2
4.3 Country code	2
4.4 Graphic data dictionary	2
4.5 Pictogram	2
4.6 Pictogram category code	2
4.7 Qualifier	2
4.8 Service category code	2
5 Abbreviated Terms	2
6 Requirements	3
7 Structure of Graphic Data Dictionary	3
7.1 General	3
7.2 Country code	3
7.3 Category code	4
7.3.1 Categorization policy	4
7.4 Data type of Graphic data dictionary	4
8 Numbering of category code	5
8.1.1 Service Category Code No. '11111-11999': Traffic Sign Pictograms (Warning).....	5
8.1.2 Service Category Code No. '12111-12999': Traffic Sign Pictograms (Regulatory)	10
8.1.3 Service Category Code No. '13111-13999': Traffic Sign Pictograms (Guide Signs).....	17
8.1.4 Service Category Code No. '21111- 21999': Public Facilities Pictograms (Public Facilities)	23
8.1.5 Service Category Code No. '31111- 31999': Ambient/Road Conditions Pictograms (Ambient Condition)	25
8.1.6 Service Category Code No. '32111- 32999': Ambient/Road Conditions Pictograms (Road Condition).....	25
Annex A (Normative) ASN.1 description of GDD.....	27
Annex B (Normative) Attributes of GDD	32
Annex C (Normative) List of directions at diverging point	39
Annex D (Informative) UML diagram of GDD.....	44
Annex E (Informative) Example GDD Data set for U.N. and selected countries.....	45

Foreword

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

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

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

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

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

The committee responsible for this document is ISO/XXX

This second/third/... edition cancels and replaces the first/second/... edition (), [clause(s) / subclause(s) / table(s) / figure(s) / annex(es)] of which [has / have] been technically revised.

ISO XXXX consists of the following parts. [Add information as necessary.]

Introduction

This International Standard presents 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. This is intended to support Intelligent Transport System messaging.

The purpose of GDD is to specify an encoding system that specifies unique identifiers for road traffic signs and pictograms used in several countries and to associate these into common functional groups.

Elements of Graphic Data are the:

- full name of the pictogram;
- definition of the pictogram;
- code for the pictogram;
- attribute(s) of the pictogram; and,
- pictogram itself.

Normative items in this International Standard are the coding scheme involving the full name, definition and attributes to define each graphic image. This standard is not intended to create and specify a common design of graphic images.

The intended usage of this International Standard 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 International Standard may 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.

– Entwurf –

Intelligent transport systems — Graphic data dictionary

1 Scope

This International Standard defines 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 Conformance

An implementation is conformant with this international standard when the following conditions are met:

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

3 Normative references

The following referenced document is indispensable for the application 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 3166-1:2013, Codes for the representation of names of countries and their subdivisions -- Part 1: Country codes

ISO/IEC 8824-1:2015, Abstract Syntax Notation One (ASN.1): Specification of basic notation

ISO 8601:2004, Data elements and interchange formats -- Information interchange -- Representation of dates and times

4 Terms and definitions

4.1 Attribute

The code attached to the pictogram in order to clarify the meaning of pictogram by adding such as time or length or direction.

4.2 Category code

The codes assigned to distinguish each pictograms, consisting service category code and pictogram category code.

4.3 Country code

Internationally recognised codes stipulated by the ISO 3166-1:2013 when referring to countries and subdivisions of countries.

4.4 Graphic data dictionary

A set of country code, category code and attributes to catalogue pictograms systematically.

4.5 Pictogram

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

4.6 Pictogram category code

The codes assigned to the more detailed category of a pictogram type under the service category.

4.7 Qualifier

A parameter for an attribute used to express the meaning of pictogram quantitatively.

4.8 Service category code

The codes assigned to distinguish the Service category such as a regulation or public facilities.

5 Abbreviated Terms

ASN.1 Abstract Syntax Notation One

GDD Graphic data dictionary

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 International Standard 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 International Standard 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 International Standard 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 International Standard 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 Attribute indicator.
- Category code shall be decided based on Table 1.
- Regulatory pictogram code shall be selected from Table 21.
- Guide pictogram code shall be selected from Table 22.
- Public facilities pictogram code shall be selected from Table 23.
- Ambient/road conditions pictogram code shall be selected from Table 24.
- Integer value which indicate the direction shall be determined based on Table 10.
- If Attribute indicator is on, graphic data shall include attributes listed in Table 8.
- When transmitting Graphic data, it shall be coded based on the ASN.1 code described in Annex A.
Note: For transmission efficiency purposes compression may be considered; this is outside the scope of this International Standard.

7 Structure of Graphic Data Dictionary

7.1 General

Graphic data dictionary shall consists of country code, category code and may consist of attributes.

7.2 Country code

Country code 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 units has a 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: Prohibitory or Restrictive	
		7-9: Mandatory	
	3: Informative	1-3: Advance direction	
		4: Direction	
		6: Lane guide	
		7-9: Road/ Place identification	
2: Public Facilities	1: Public Facilities	1-9: Public facilities & services	
3: Ambient / Road Condition	1: Ambient Condition	1-9: Ambient condition & 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

8.1.1 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	Pictogram Category		
11	111	Intersection where the priority is prescribed by the general priority rule (Crossroads)	Warning of the existence of a cross-shaped intersection ahead.
	112	Intersection where the priority is prescribed by the general priority rule (Side road right)	Warning of the existence of a side road ahead.
	113	Intersection where the priority is prescribed by the general priority rule (Side road left)	Warning of a side road ahead (Reverse type of Code No. 112).

Category code		Category code Name	Definition
Service Category	Pictogram Category		
	114	Forked(off to upper right) intersection where the priority is prescribed by the general priority rule	Warning of the existence of a side road. Fork (off to upper right) type of Code No. 112
	115	Forked (off to upper left) intersection where the priority is prescribed by the general priority rule	Warning of the existence of a side road. Fork (off to upper left) type of Code No. 113
	116	Intersection where the priority is prescribed by the general priority rule (T junction)	Warning of a T-shaped level junction at the end of the road.
	117	Intersection where the priority is prescribed by the general priority rule (Y intersection)	Warning of a Y-shaped level intersection ahead.
	118	Intersection where the priority is prescribed by the general priority rule (Staggered intersection)	Warning of a staggered level intersection ahead.
	119~131	Reserved for future use.	
	132	Intersection with a road the users of which must give way	Warning of a priority road at intersection.
	133	Intersection with a road the users of which must give way T-shaped crossing left	Warning of a priority road at T-shaped crossing.
	134	Intersection with a road the users of which must give way T-shaped crossing right	Warning of a priority road at reversed T-shaped crossing.
	135	Intersection with a road the users of which must give way T-shaped crossing of fork type Lower left	Warning of a priority road at T-shaped crossing of fork type (Lower left) ahead.
	136	Intersection with a road the users of which must give way T-shaped crossing of fork type Lower right	Warning of a priority road at reversed T-shaped crossing of fork type (Lower right) ahead.
	137~147	Reserved for future use.	
	148	Warning of roundabout (Clockwise)	Warning of a clockwise roundabout ahead.
	149	Warning of roundabout (Anti-clockwise)	Warning of an anti-clockwise roundabout ahead.
	150~160	Reserved for future use.	
	161	Dangerous bend(Right bend)	Warning of a dangerous single curve to the right ahead.
	162	Dangerous bend(Left bend	Warning of a dangerous single curve to the left ahead.

Category code		Category code Name	Definition
Service Category	Pictogram Category		
	163~173	Reserved for future use.	
	174	Right turn	Warning of a single sharp curve (turn) to the right. A turn is differentiated from a curve by combining all elements of speed, radius of curve, road incline, intersection angle, and visible distance.
	175	Left turn	Notice of a single sharp curve (turn) to the left. A turn is differentiated from a curve by combining all elements of speed, radius of curve, road incline, intersection angle, and visible distance.
	176~186	Reserved for future use.	
	187	Reverse curve (Right and left)	Warning of a combination of two curves (right and left) ahead (S-bend).
	188	Reverse curve (Left and right)	Warning of a combination of two curves (left and right) ahead (S-bend).
	189~210	Reserved for future use.	
	211	Dangerous bend (Double bend, right)	Warning of dangerous double or multiple bends which start with a right curve.
	212	Dangerous bend (Double bend, left)	Warning of dangerous double or multiple bends which start with a left curve.
	213~223	Reserved for future use.	
	224	Winding road (First to the right)	Warning of a winding section, which start with a right curve.
	225	Winding road (First to the left)	Warning of a winding section, which start with a left curve.
	226~235	Reserved for future use.	
	236	Level crossing with gate or barrier	Warning of the existence of a level railway crossing with gates or barrier ahead.
	237	Other level-crossing	Warning of a level railroad crossing point without gate or barrier ahead.
	238	Intersection with a tramway line	Warning of a road with a tramway line ahead.
	239	Children (right)	Warning of an area where children may exit from a school or playground frequently pass by and cross the road from the right side.
	241	Pedestrian crossing (right)	Warning of an area where pedestrians frequently pass by and cross the road from the right side.
	242	Elderly or disabled pedestrians likely to cross ahead	Warning of an area where elderly or disabled pedestrians likely pass by and cross the road ahead.
	243	Reserved for future use.	
	244	Children (left)	Warning of a crosswalk where children may exit from a school or playground frequently pass by and cross the road from the left side.
	245	Pedestrians (left)	Warning of a crosswalk where pedestrians frequently pass by and cross the road from the left side.
	246	Pedestrian crossing ahead (left)	Warning of a crosswalk where pedestrians frequently pass by and cross the road from the left side.
	247	Pedestrian crossing ahead	Warning of a crosswalk where pedestrians frequently pass by and cross the road from the right side.

Category code		Category code Name	Definition
Service Category	Pictogram Category		
	248~ 252	Reserved for future use.	
	253	Light signals	Warning of a signal-controlled crossing ahead where signal(s) are invisible or hard to identify from a distant point.
	254	Slippery road	Warning of a slippery road surface that may hinder travelling at normal speeds.
	255	Falling rocks (left)	Warning of the possibility of falling rocks or the presence of fallen rocks on road surface from the left side.
	256	Loose gravel	Warning of an unpaved section with loose gravel on the surface that may hinder travelling at normal speeds.
	257	Dangerous shoulders	Warning of a dangerous road shoulder
	258	Falling rocks(right)	Warning of the possibility of falling rocks or the presence of fallen rocks on road surface.(right)
	259~ 267	Reserved for future use.	
	268	Uneven road	Warning of a bumpy section ahead that may hinder travelling at normal speeds.
	269	Uneven road (hump bridge)	Warning of a road humps or series of road humps on road surface ahead that may hinder travelling at normal speeds.
	271	Uneven road (dip)	Warning of a section with a large single dip on road surface ahead that may hinder travelling at normal speeds.
	272~ 282	Reserved for future use.	
	283	Traffic merging from the right	Warning of a merge of an inflow lane from the right into through traffic.
	285	Traffic merging from left	Warning of a merge of an inflow lane from the left into through traffic.
	286~ 295	Reserved for future use.	
	296	Carriageway narrows from the right	Warning that the number of lanes is reduced from the right.
	297	Carriageway narrows from the left	Warning that the number of lane is reduced from the left.
	298~ 318	Reserved for future use.	
	319	Carriageway narrows	Warning that the width of the carriageway is reduced.
	320~ 331	Reserved for future use.	
	332	Two-way traffic	Warning that the approaching road is for two-way traffic.
	333~ 345	Reserved for future use.	
	346	Steep ascent	Warning that there is a steep hill upwards with the indicated ROI (%).

Category code		Category code Name	Definition
Service Category	Pictogram Category		
	347	Dangerous descent	Warning that there is a steep dangerous hill downwards with the indicated ROI (%).
	348	Road works	Warning that there is a section under road construction or repairs ahead.
	349~ 360	Reserved for future use.	
	361	Cross-wind(left)	Warning of the possibility of sudden side wind that may hinder travelling at normal speeds from the left side.
	362	Airfield (right)	Warning of the existence of low flying aircraft or sudden aircraft noise.(right)
	363	Wild animals crossing (right)	Warning of the possibility of wild animals crossing the road.
	364	Domestic anima crossingl(right)	Warning of the possibility of domestic animal crossing the road from the right hand side.
	365	Cross-wind(right)	Warning of the possibility of cross-wind, right
	366	Airfield (left)	Warning of the existence of low flying aircraft or sudden aircraft noise, (left)
	367	Cattle or other animals crossing(left)	Warning of the possibility of cattle or other animals, crossing from the left side.
	368	Cattle or other animals crossing(left)	Warning of the possibility of animals crossing from the left side.
	369~ 377	Reserved for future use.	
	378	Swing bridge	Warning of an opening or swing bridge ahead.
	379	Road leads to quayside or river bank	Warning of a quayside or river bank ahead.
	381	Cyclist entering or crossing(right)	Warning of a cycle route from the right side.
	382	Cyclist entering or crossing(left)	Warning of a cycle route from the left side.
	383~ 394	Reserved for future use.	
	395	Give way ahead	Warning of a crossing where drivers must give way the right-of-way to the road ahead.
	396	Give way at specified distance ahead	Warning of a crossing where drivers must give way the right-of-way to the road at specified distance ahead. A distance to the crossing from the sign is suffixed to this information.
	397	Warning for an automatically rising bollard	Warning of an automatically deployed bollard that may rise from the road surface.
	398	Waring for wrong way driving	Warning of wrong way driving in the situation where drivers may misunderstand the direction for driving.
	399	Stop ahead	Warning of a crossing where drivers must stop ahead.
	400~ 410	Reserved for future use.	
	411	Level-crossings(vertically long)	Warning of a vertically long level-crossings ahead.