
**Intelligent transport systems —
Reference model architecture(s) for
the ITS sector —**

**Part 6:
Use of ASN.1**

*Systemes intelligents de transport (ITS) — Architecture(s) de modèle
de référence pour le secteur ITS —*

Partie 6: Présentation de données dans ASN.1

Document Preview

ISO 14813-6:2017

<https://standards.iteh.ai/catalog/standards/iso/06101ab3-389f-4b59-9103-4e54bc52b16b/iso-14813-6-2017>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 14813-6:2017

<https://standards.iteh.ai/catalog/standards/iso/06101ab3-389f-4b59-9103-4e54bc52b16b/iso-14813-6-2017>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

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

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

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	4
5 Requirements	4
5.1 General requirements.....	4
5.1.1 Use of ASN.1 is mandatory.....	4
5.1.2 Consistency with the CIDCR.....	4
5.1.3 Limited use of OCTET STRING.....	5
5.1.4 ASN.1 historical name.....	5
5.2 Encoding rules.....	5
5.3 Module definitions.....	5
5.3.1 General requirements.....	5
5.3.2 Conformance.....	6
5.3.3 Name.....	6
5.3.4 Identification.....	6
5.3.5 Tag default.....	6
5.3.6 Version and revision.....	7
5.4 Data type assignments.....	7
5.4.1 General.....	7
5.4.2 Message versioning.....	7
5.4.3 Contents of message or aggregate domain.....	8
5.4.4 Reference style in NamedTypes.....	8
5.4.5 Comments.....	8
5.4.6 Version Control of data types.....	8
Annex A (normative) ASN.1 module	10
Annex B (normative) Data concept definitions	11
Bibliography	15

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

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

This second edition cancels and replaces the first edition (ISO 14813-6:2009), which has been technically revised.

The main changes compared to the previous edition are as follows:

- The requirement to use the aligned variant of the PER ASN.1 encoding rules is relaxed; any set of ASN.1 encoding is now allowed;
- All new messages are now required to include a version number within its structure;
- Additional rules are defined to create unambiguous references to entries within the CIDCR;
- ASN.1 comments are now only allowed for informative text;
- OID assignments are now consistent with the rules defined in ISO 14817-3.

A list of all the parts in the ISO 14813 series, can be found on the ISO website.