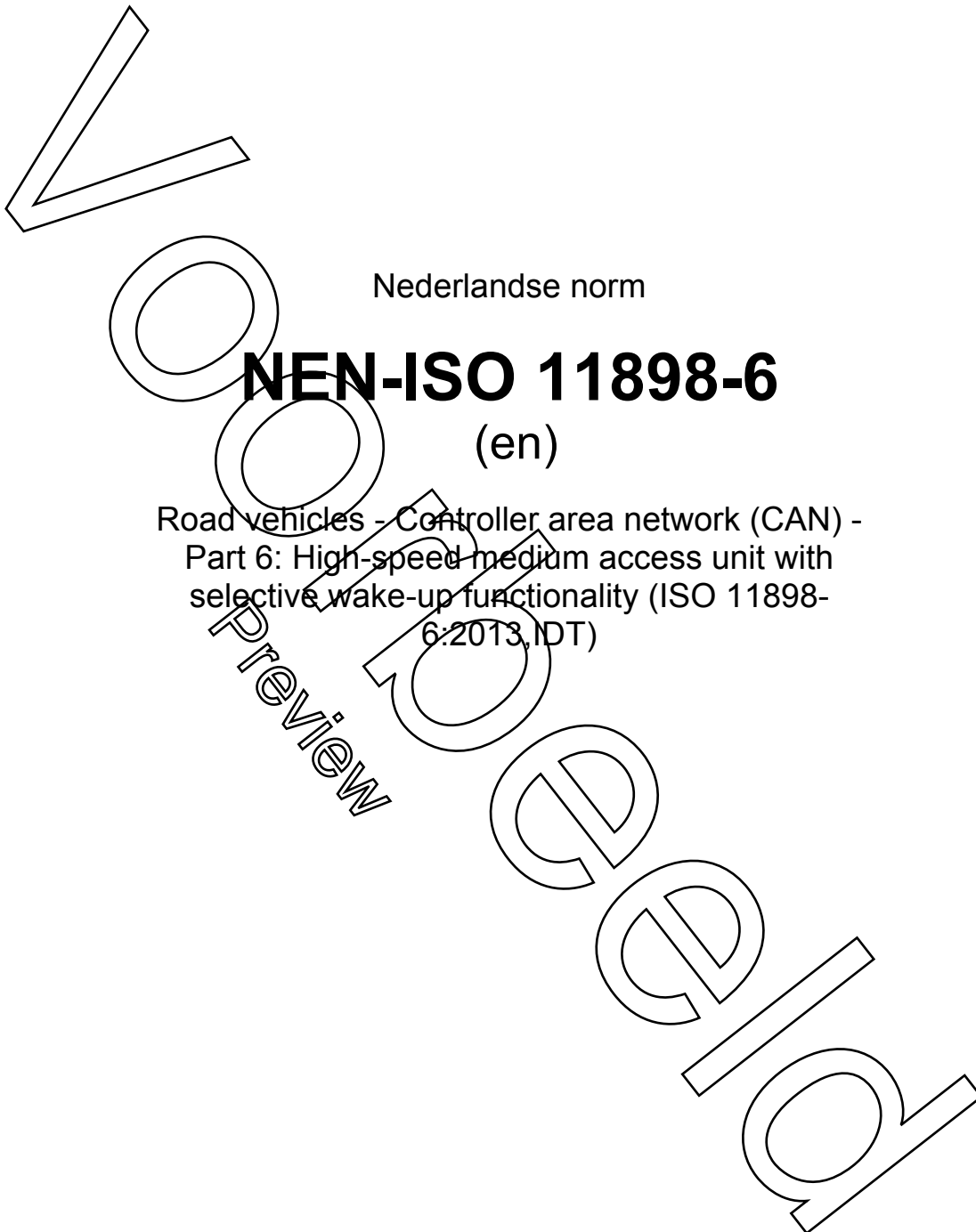


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Nederlandse norm

NEN-ISO 11898-6

(en)

Road vehicles - Controller area network (CAN) -
Part 6: High-speed medium access unit with
selective wake-up functionality (ISO 11898-
6:2013, IDT)

ICS 43.040.15
november 2013

Als Nederlandse norm is aanvaard:

- ISO 11898-6:2013.IDT

VOORBEELD
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Preview

ROADMAP

**Road vehicles — Controller area
network (CAN) —**

**Part 6:
High-speed medium access unit with
selective wake-up functionality**

*Véhicules routiers — Gestionnaire de réseau de communication CAN —
Partie 6: Unité d'accès au médium haute vitesse avec fonctionnalité de
réveil sélectif*



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Draft
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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).

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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: [Foreword – Supplementary information](#)

The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

ISO 11898 consists of the following parts under the general title *Road vehicles — Controller area network (CAN)*:

- *Part 1: Data link layer and physical signalling*
- *Part 2: High-speed medium access unit*
- *Part 3: Low-speed, fault-tolerant, medium-dependent interface*
- *Part 4: Time-triggered communication*
- *Part 5: High-speed medium access unit with low-power mode*
- *Part 6: High-speed medium access unit with selective wake-up functionality*

Introduction

This International Standard was first published as one document in 1993. It covered the controller area network (CAN) data link layer, as well as the high-speed physical layer.

In the reviewed and restructured ISO 11898 series:

- ISO 11898-1 describes the data link layer including the logical link control (LLC) sublayer and the medium access control (MAC) sublayer as well as the physical signalling (PHS) sublayer;
- ISO 11898-2 defines the high-speed medium access unit (MAU);
- ISO 11898-3 defines the low-speed fault-tolerant medium access unit (MAU);
- ISO 11898-4 defines the time-triggered communication;
- ISO 11898-5 defines the power modes of the high-speed medium access unit (MAU);
- ISO 11898-6 defines the selective wake-up functionality of the high-speed medium access unit (MAU).

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Probleem
Preview

Road vehicles — Controller area network (CAN) —

Part 6: High-speed medium access unit with selective wake-up functionality

1 Scope

This part of ISO 11898 specifies the controller area network (CAN) physical layer for transmission rates up to 1 Mbit/s. It describes the medium access unit (MAU) functions.

This part of ISO 11898 represents an extension of ISO 11898-2 and ISO 11898-5, specifying a selective wake-up mechanism using configurable CAN frames.

Physical layer implementations according to this part of ISO 11898 are compliant with all parameters of ISO 11898-2 and ISO 11898-5. Implementations according to this part of ISO 11898, ISO 11898-2, and ISO 11898-5 are interoperable and can be used at the same time within one network.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7637-3, *Road vehicles — Electrical disturbances from conduction and coupling — Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines*

ISO 11898-1, *Road vehicles — Controller area network (CAN) — Part 1: Data link layer and physical signalling*

ISO 11898-2:2003, *Road vehicles — Controller area network (CAN) — Part 2: High-speed medium access unit*

ISO 11898-5:2007, *Road vehicles — Controller area network (CAN) — Part 5: High-speed medium access unit with low-power mode*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 11898-1, ISO 11898-2, and ISO 11898-5 and the following apply.

3.1

bias unit

subpart of the transceiver which provides the biasing voltage

Note 1 to entry: [Figure 1](#) depicts the subparts of a transceiver.

3.2

bit rate

number of bits per time during transmission, independent of bit representation

3.3

CAN node

communication participant of the CAN system which contains typically a transceiver, a CAN controller, and a processing unit

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