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Configurable car infotainment services (CCIS) - Part 2:  
Requirements

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| See Eesti standard EVS-EN IEC 63246-2:2022 sisaldab Euroopa standardi EN IEC 63246-2:2022 ingliskeelset teksti.     | This Estonian standard EVS-EN IEC 63246-2:2022 consists of the English text of the European standard EN IEC 63246-2:2022.                            |
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ICS 33.160.99, 43.040.15

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EUROPEAN STANDARD

**EN IEC 63246-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2022

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English Version

**Configurable car infotainment services (CCIS) - Part 2:  
Requirements  
(IEC 63246-2:2022)**

Services d'infodivertissements configurables pour les  
véhicules (CCIS) - Partie 2 : Exigences  
(IEC 63246-2:2022)

Konfigurierbare Fahrzeug Informationsdienste (CCIS) - Teil  
2: Anforderungen  
(IEC 63246-2:2022)

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## European foreword

The text of document 100/3508/CDV, future edition 1 of IEC 63246-2, prepared by IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63246-2:2022.

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

| <u>Publication</u> | <u>Year</u> | <u>Title</u>   | <u>EN/HD</u>   | <u>Year</u> |
|--------------------|-------------|--|----------------|-------------|
| IEC 63246-1        | -           | Configurable car infotainment services<br>(CCIS) - Part 1: General | EN IEC 63246-1 | -           |

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Configurable car infotainment services (CCIS) –  
Part 2: Requirements**

**Services d'infodivertissements configurables pour les véhicules (CCIS) –  
Partie 2: Exigences**



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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Configurable car infotainment services (CCIS) –  
Part 2: Requirements**

**Services d'infodivertissements configurables pour les véhicules (CCIS) –  
Partie 2: Exigences**

INTERNATIONAL  
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**CONFIGURABLE CAR INFOTAINMENT SERVICES (CCIS) –****Part 2: Requirements**

## FOREWORD

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IEC 63246-2 has been prepared by technical area 17: Multimedia systems and equipment for vehicles, of IEC technical committee 100: Audio, video and multimedia systems and equipment. It is an International Standard.

The text of this International Standard is based on the following documents:

| Draft        | Report on voting |
|--------------|------------------|
| 100/3508/CDV | 100/3627/RVC     |

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

A list of all parts in the IEC 63246 series, published under the general title *Configurable car infotainment services (CCIS)*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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## INTRODUCTION

The market for car infotainment services (also known as "in-vehicle infotainment systems") has been growing rapidly, as reflected by the growth of the associated industries. It is expected that a variety of car infotainment (or multimedia) devices and services will be developed in the future. Such devices include navigation, cameras, speakers, headrest displays, air-conditioners, thermometers, heated seats, and lights. It is also expected that some devices will be developed to provide 4-dimensional experiences for users.

Car infotainment systems typically include A/V features (such as standard radio and CD players), and two-way communications tools, as well as hands-free phone connections, vehicle voice commands, and other types of interactive audios or videos. Car infotainment systems have evolved to allow passengers to watch movies and other visual media (for example, DVD players installed on the rear seats). Another distinctive feature of future car infotainment systems is mobile device connectivity. Newer vehicles will provide a wide range of systems that allow devices (e.g. smartphones and laptops) to be connected to a variety of services embedded in the vehicle.

From this observation, there is a crucial need for standardization to provide car infotainment users with more enhanced services so as to easily manage and control infotainment devices as well as content within a car.

The purpose of the IEC 63246 series is to specify the general considerations, requirements, framework, and protocols to provide car users with the functionality of managing and controlling device and content resources within a car.

The IEC 63246 series consists of the following parts:

- Part 1: General;
- Part 2: Requirements;
- Part 3: Framework; and
- Part 4: Protocol.

IEC 63246-1 describes the general considerations of CCIS, which includes the CCIS system model and the types of CCIS users with the associated service flows.

IEC 63246-2 describes the requirements for CCIS, which include the CCIS functional entities, the communication model, and the functional requirements.

IEC 63246-3 describes the CCIS framework, which includes the information flows between functional entities and the CCIS operations, such as registration, device monitoring and control, and data transfer.

IEC 63246-4 describes the CCIS protocol, which includes the protocol messages and parameters, protocol procedures, implementation guidelines, etc.