

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Configurable car infotainment services (CCIS) –
Part 1: General**

**Services d'infodivertissements configurables pour les véhicules (CCIS) –
Partie 1: Généralités**



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International Standard IEC 63246-1 has been prepared by TA17: Multimedia systems and equipment for vehicles, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

CDV	Report on voting
100/3414/CDV	100/3538/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.

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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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.

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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 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.

CONFIGURABLE CAR INFOTAINMENT SERVICES (CCIS) –

Part 1: General

1 Scope

This part of IEC 63246 describes the general considerations of CCIS, which include the system model of the CCIS and the types of CCIS clients with the associated service flows.

2 Normative references

There are no normative references in this document.

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

CCIS

configurable car infotainment services

service to manage and use a variety of services within a car and to provide device control functionality for clients

Note 1 to entry: This note applies to the French language only.

3.2

CCIS user

user that can use and control the CCIS devices within the car with the help of the CCIS master

Note 1 to entry: CCIS users are classified as follows: car owner, temporary owner, public client, and private client.

3.3

CCIS device

device within the car that can be controlled and managed by the CCIS master, which can be a device (smart phone, speaker, multimedia player, etc.) or content (music, video, etc.) on a device

Note 1 to entry: Each CCIS device may be shared by one or more CCIS users.

3.4

CCIS master

central device to provide overall management and control functions for CCIS services and users

3.5

CCIS content

content comprising information and experience that are directed towards a CCIS user, which can be video, audio, still images, graphics, and data streams taken together to form a single identifiable unit