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**Infotainment services for public vehicles (PVIS) -
Part 2: Requirements**

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Infotainment services for public vehicles (PVIS) - Part 2: Requirements

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IEC 63479-2 has been prepared by the 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
100/4261/CDV	100/4346/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 63479 series, published under the general title *Infotainment services for public vehicles (PVIS)*, 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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,
– withdrawn, or
– revised.

INTRODUCTION

It is noted that the markets and industries on infotainment services for vehicles (as known as in-vehicle infotainment services) have been growing rapidly. It is envisioned that a variety of infotainment (or multimedia) devices and services will be newly developed for personal and public vehicles in the future. Such devices include navigations, cameras, speakers, headrest displays, air-conditioners, thermometers and heated seats, and lights.

A set of standards have so far been developed on configurable car infotainment services (CCIS) in the form of the IEC 63246 series. However, the CCIS standards have been basically designed for personal users, such as car owners. In the meantime, there is also a crucial need to provide a variety of infotainment services for public vehicles (PVIS) such as buses or trains.

PVIS services have different requirements and features from CCIS services. For user type, CCIS is targeted for one or two users (such as car owners), whereas PVIS is for a large number of guests or passengers within the public vehicle. For device type, CCIS deals with the personal devices (property or belonging) in the car, whereas PVIS will be targeted for a variety of public devices that are contained in a public vehicle. Some PVIS services can be provisioned by interworking with the external networks, as shown in the bus information service. For service duration, CCIS usually provide long-term services, whereas PVIS may provide short-term service during which a guest stays within a public vehicle.

From these observations, it is noted that there are many different features and requirements when comparing CCIS and PVIS. Accordingly, there is a need for standardization on PVIS. In particular, PVIS must employ a set of agents to effectively manage a large number of users or devices.

The PVIS series (IEC 63479) describes infotainment (multimedia) services for terrestrial public vehicles, such as bus, train, or subway. It is not applicable to public vehicles, such as airplanes or ships. For this purpose, the following issues are addressed: 1) identify a variety of functional requirements for provisioning of PVIS, 2) design the PVIS framework, based on the identified requirements. The PVIS IEC 63479 series is expected to provide guidelines on PVIS services for a large number of users or devices, and to encourage development of new (enhanced) PVIS services (possibly by interworking with the external systems).

The IEC 63479 series consists of the following parts:

– IEC TR 63479-1: general,

– IEC 63479-2: requirements, and

– IEC 63479-2: framework.

IEC TR 63479-1 (Technical Report) describes general considerations and a system model for PVIS, with some examples of PVIS services.

IEC 63479-2, i.e. this document (International Standard), describes the functional requirements for PVIS.

IEC 63479-3 (International Standard) describes the framework, including the functional information flows between functional entities.

1 Scope

This part of IEC 63479 describes the functional requirements for infotainment services for public vehicles (PVIS).

2 Normative references

There are no normative references in this document.

Bibliography

IEC 63246-1:2021, *Configurable car infotainment services (CCIS) - Part 1: General*

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

IEC 63246-3:2022, *Configurable car infotainment services (CCIS) - Part 3: Framework*

IEC TR 63246-4:2022, *Configurable car infotainment services (CCIS) - Part 4: Protocol*

IEC TR 63479-1:2023, *Infotainment Services for Public Vehicles (PVIS) - Part 1: General*

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