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Intelligent transport systems — Dedicated short range communication (DSRC) — DSRC application layer

*Systèmes intelligents de transport — Communications spécialisées à
courte portée (DSRC) — Couche d'application DSRC*



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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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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](#)

ISO 15628 was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

This second edition cancels and replaces the first edition (ISO 15628:2007), which has been technically revised.

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Introduction

The communication requirements of many ITS applications can be fulfilled by DSRC. The DSRC International Standards enable compliant communication systems to serve multiple ITS applications in parallel.

The small service areas and severe real-time constraints require a specific protocol architecture leading to the reduced protocol stack shown in [Figure 1](#), built up by the “application layer”, the “data link layer” and the “physical layer”. Such architecture is very common for real-time environments.

This International Standard gives the architecture and services offered by the DSRC application layer.

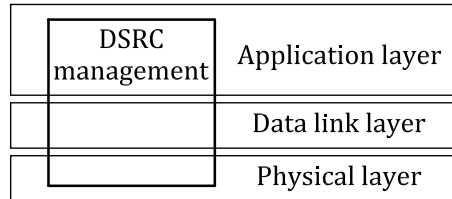


Figure 1 — DSRC protocol stack

This International Standard contains, besides the normative main body, three normative annexes: “Data structures”, “Naming and registration”, “Declaration of application layer features supported”; plus two informative annexes: “Example of coding” and “Lower layer services”.