



ISO 15765-2

Road vehicles — Diagnostic communication over Controller Area Network (DoCAN) —

**Part 2:
Transport protocol and network layer services**

Véhicules routiers — Communication de diagnostic sur gestionnaire de réseau de communication (DoCAN) —

Partie 2: Protocole de transport et services de la couche réseau

**Fourth edition
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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 31, *Data communication*.

This fourth edition cancels and replaces the third edition (ISO 15765-2:2016), which has been technically revised.

The main changes are as follows:

- restructured the document to achieve compatibility with OSI 7-layers model;
- introduced T_Data abstract service primitive interface to achieve compatibility with ISO 14229-2;
- moved all transport layer protocol-related information to [Clause 9](#);
- clarification and editorial corrections.

A list of all parts in the ISO 15765 series can be found on the ISO website.

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The ISO 15765 series defines common requirements for vehicle diagnostic systems using the controller area network (CAN), as specified in the ISO 11898 series.

The ISO 15765 series presumes the use of external test equipment for inspection, diagnostics, repair and other possible use cases connected to the vehicle.

This document defines the requirements to enable the in-vehicle CAN network to successfully establish, maintain and terminate communication with the devices externally connected to the diagnostic link connector.

This document has been structured according to the open systems interconnection (OSI) basic reference model, in accordance with ISO/IEC 7498-1 and ISO/IEC 10731, which structures communication systems into seven layers. When mapped on this model, the OSI layer 4 and OSI layer 3 framework requirements specified or referenced in the ISO 15765 series are structured according to [Figure 1](#), which shows the related documents of OSI layer 4 and OSI layer 3.

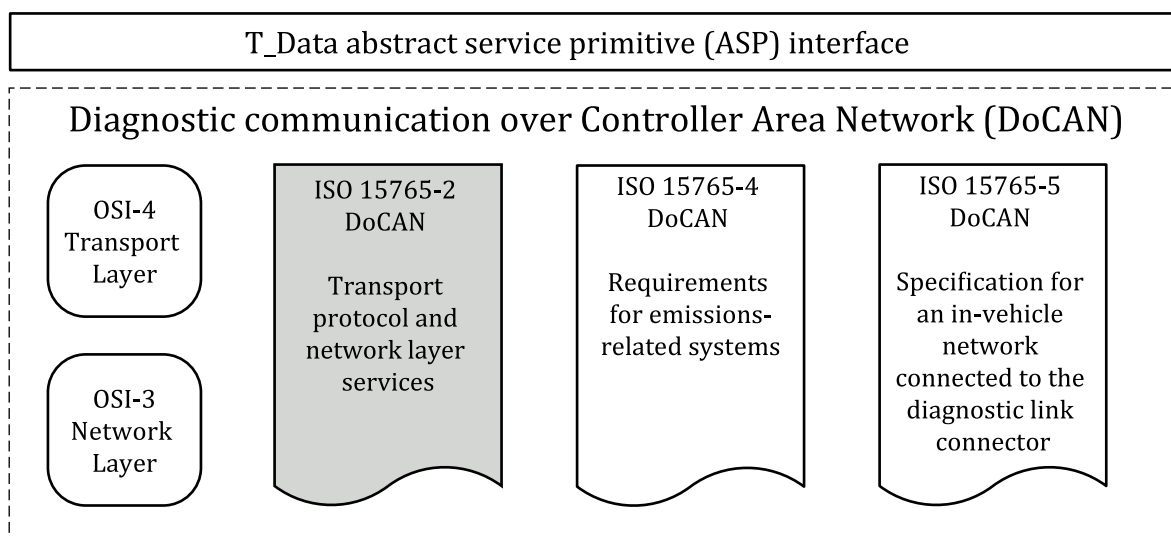


Figure 1 — DoCAN document reference according to the OSI model