Road vehicles — Unified diagnostic services (UDS) —

Part 2:
Session layer services

Véhicules routiers — Services de diagnostic unifiés (SDU) —

Partie 2: Services de la couche session
10.2.2 Functional communication during defaultSession – with SOM.ind .................................... 32
10.2.3 Functional communication during defaultSession with enhanced response timing – with SOM.ind ................................................................. 33
10.2.4 Functional communication during non-default session – with SOM.ind ....................... 36
10.3 Minimum time between client request messages ............................................................... 40

Annex A (normative) T_PDU interface ......................................................................................... 48
Annex B (informative) Vehicle diagnostic OSI layer architecture examples .......................... 49

Bibliography ............................................................................................................................... 53
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This document was prepared by Technical Committee ISO/TC 22, Road vehicles, Subcommittee SC 31, Data communication.

This second edition cancels and replaces the first edition (ISO 14229-2:2013), which has been technically revised.

The main changes are as follows:
— restructuration of the document;
— introduction of requirement numbers and names;
— technical content improvements based on implementation feedback from the automotive industry.

A list of all parts in the ISO 14229 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.
Introduction

The ISO 14229 series has been established in order to define common requirements for diagnostic systems, whatever the serial data link is.

To achieve this, the ISO 14229 series is based on the Open Systems Interconnection (OSI) Basic Reference Model in accordance with ISO/IEC 7498-1 and ISO/IEC 10731,[1] which structures communication systems into seven layers. When mapped on this model, the services used by a diagnostic tester (client) and an Electronic Control Unit (ECU, server) are structured into the following layers:

— application layer (layer 7) specified in ISO 14229-1;
— presentation layer (layer 6) specified in ISO 14229-1;
— session layer services (layer 5) specified in this document (ISO 14229-2).

Figure 1 illustrates the ISO 14229 series reference according to OSI model.