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Road vehicles — Diagnostic systems — Keyword Protocol 2000 —

Part 3: Application layer

*Véhicules routiers — Systèmes de diagnostic —
Protocole «Keyword 2000» —*

Partie 3: Couche application



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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 14230-1 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, subcommittee SC 3, *Electrical and electronic equipment*.

ISO 14230 consists of the following parts, under the general title *Road vehicles — Diagnostic systems — Keyword Protocol 2000*:

- *Part 1: Physical layer*
- *Part 2: Data link layer*
- *Part 3: Application layer*
- *Part 4: Requirements for emissions-related systems*

Annex A of this part of ISO 14230 is for information only.

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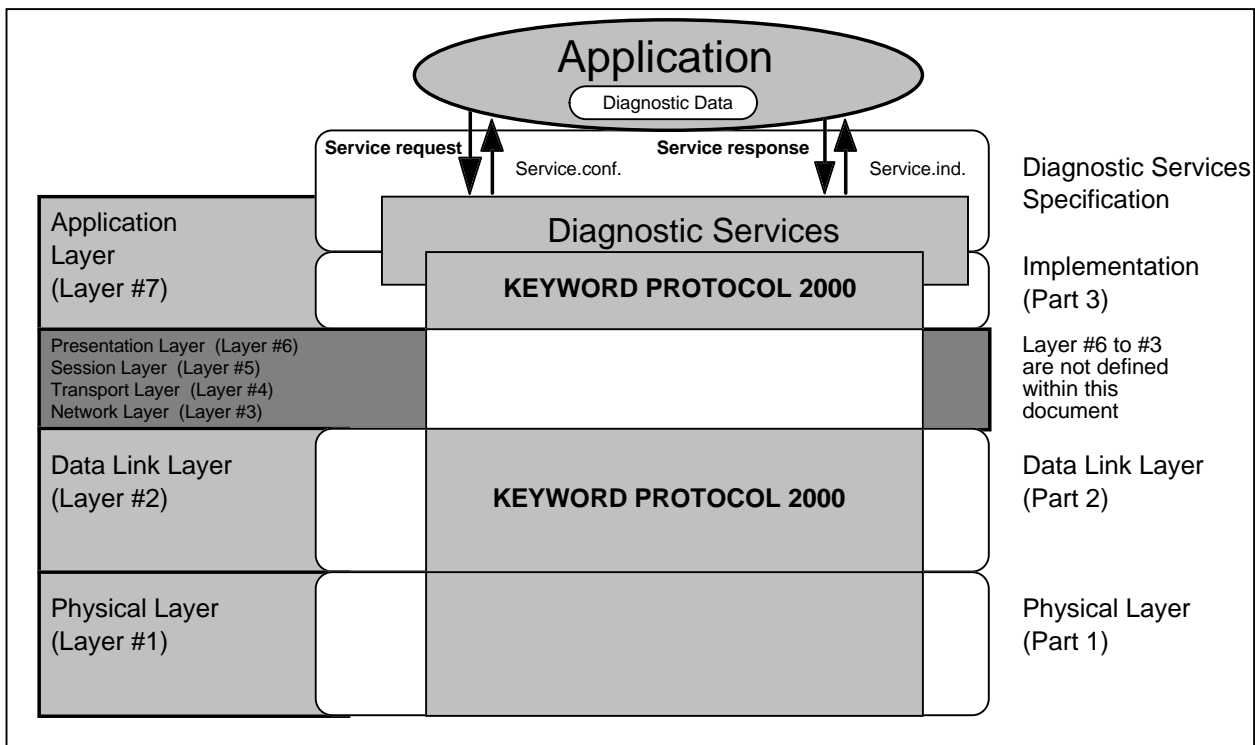
Introduction

ISO 14230 has been established in order to define common requirements for diagnostic systems implemented on a serial data link.

To achieve this, it is based on the Open Systems Interconnection (OSI) Basic Reference Model in accordance with ISO 7498 which structures communication systems into seven layers. When mapped on this model, the services used by a diagnostic tester and an Electronic Control Unit (ECU) are broken into

- diagnostic services (layer 7),
- communication services (layers 1 to 6).

See figure 1.



Example of serial data links: KWP2000, VAN, CAN, J1850, etc.

Figure 1 — Mapping of Diagnostic Services and Keyword Protocol 2000 on OSI Model