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Road vehicles — Open diagnostic data exchange (ODX) —

Part 1: Data model specification

Véhicules routiers — Échange de données de diagnostic ouvert (ODX) —

Partie 1: Spécification de modèle de données

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Foreword

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ISO 22901 consists of the following parts, under the general title *Road vehicles — Open diagnostic data exchange (ODX)*:

— *Part 1: Data model specification*

The following parts are under preparation:

— *Part 2: Emissions-related diagnostic data*

Introduction

The purpose of this part of ISO 22901 is to define the data format for transferring Electronic Control Unit (ECU) diagnostic and programming data between the system supplier, vehicle manufacturer and service dealerships and diagnostic tools of different vendors.

In today's automotive industry, an informal description is generally used to document the diagnostic data stream information of vehicle ECUs. Any user wishing to use the ECU diagnostic data stream documentation to set up development tools or service diagnostic test equipment needs a manual transformation of this documentation into a format readable by these tools. This effort will no longer be required if the diagnostic data stream information is provided in Open Diagnostic Data Exchange (ODX) format and if those tools support the ODX format.

This part of ISO 22901 includes the data model definition of ECU diagnostic and programming data and the related vehicle interface description in Unified Modelling Language (UML). This part of ISO 22901 also includes an implementation by Extensible Mark-up Language (XML) schema in Annex C.