Draft for Public Comment

Form 36

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BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000
Fax: +44 (0)20 8996 7400
www.bsigroup.com

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Responsible committee: AUE/16 Data Communication (Road Vehicles)

Interested committees:

Title: Draft BS ISO 17978-2 Road vehicles — Service-oriented vehicle diagnostics (SOVD). Part 2: Use cases definition.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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DRAFT International Standard

ISO/DIS 17978-2

ISO/TC **22**/SC **31**

Secretariat: **DIN**

Voting begins on:
2025-06-06

Voting terminates on:
2025-08-29

Road vehicles — Service-oriented vehicle diagnostics (SOVD) —

Part 2: Use cases definition

Véhicules routiers — Diagnostic Véhicule Orienté Services (SOVD) —

Partie 2: Définition des cas d'usage

ICS: 01.040.43; 43.040.15

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Foreword

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

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Introduction

The introduction of HPCs in vehicles is associated with changes in the classical electronic and electrical vehicle architecture. Besides classical distributed embedded ECU architectures, domain- or zone-based architectures are also available. These architectures also extend beyond the physical vehicle.

This extends the focus from checking hardware to also checking the functionality of applications. It requires the recording of data such as memory usage, processor load, and the number of active services, as well as the collection of log and trace files.

These topics result in challenges regarding the management of the vehicle life cycle. Some aspects to be considered are:

— Faster release and update cycles

— Increased requirements such as data protection and cybersecurity

— State-of-the-Art diagnostic API using current information technologies

The ISO 17978 series defines an API which standardizes the methods for;

— discovering the SOVD capabilities,

— performing diagnostics,

— (re-)configuring and re-programming,

— allowing the introduction of new functionalities

Figure 1 shows the OSI layers of the ISO17978 series.:

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