INTERNATIONAL STANDARD

ISO 26262-2

Second edition 2018-12

Road vehicles — Functional safety —

Part 2:

Management of functional safety

Véhicules routiers — Sécurité fonctionnelle — Partie 2: Gestion de la sécurité fonctionnelle



ISO 26262-2:2018(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Contents			Page	
For	eword		v	
Intr	oductio	n	vii	
1	Scop	e	1	
2	_	native references		
3	Terms and definitions			
4		irements for compliance		
	4.1	Purpose		
	4.2	General requirements		
	4.3	Interpretations of tables		
	4.4	ASIL-dependent requirements and recommendations		
	4.5	Adaptation for motorcycles		
	4.6	Adaptation for trucks, buses, trailers and semi-trailers		
5		all safety management		
	5.1	Objectives		
	5.2	General		
		5.2.1 Overview of the safety lifecycle		
	F 0	5.2.2 Explanatory remarks on the safety lifecycle	5	
	5.3	Inputs to this clause		
		5.3.1 Prerequisites		
	5.4	5.3.2 Further supporting information		
	3.4	5.4.1 General		
		5.4.2 Safety culture		
		5.4.3 Management of safety anomalies regarding functional safety		
		5.4.4 Competence management		
		5.4.5 Quality management system		
		5.4.6 Project-independent tailoring of the safety lifecycle		
	5.5	Work products		
6	Proj	ect dependent safety management	12	
	6.1	Objectives		
	6.2	General		
	6.3	Inputs to this clause		
		6.3.1 Prerequisites		
	<i>C</i> 1	6.3.2 Further supporting information		
	6.4	Requirements and recommendations		
		6.4.1 General 6.4.2 Roles and responsibilities in safety management		
		6.4.3 Impact analysis at the item level		
		6.4.4 Reuse of an existing element		
		6.4.5 Tailoring of the safety activities		
		6.4.6 Planning and coordination of the safety activities		
		6.4.7 Progression of the safety lifecycle		
		6.4.8 Safety case		
		6.4.9 Confirmation measures		
		6.4.10 Confirmation reviews		
		6.4.11 Functional safety audit		
		6.4.12 Functional safety assessment		
	<i>-</i>	6.4.13 Release for production		
	6.5	Work products		
7		ry management regarding production, operation, service and decommissioning		
	7.1 7.2	ObjectiveGeneral		
	,	U U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	<u>4</u> U	

ISO 26262-2:2018(E)

7.3	Inputs to this clause	28				
	7.3.1 Prerequisites	28				
	7.3.2 Further supporting information	28				
7.4	7.3.2 Further supporting information	28				
	7.4.1 General	28				
	7.4.2 Responsibilities, planning and required processes	29				
7.5	Work products	29				
Annex A (inf	ormative) Overview of and workflow of functional safety management					
Annex B (informative) Safety culture Annex C (informative) Guidance for the confirmation measures Annex D (informative) Example of a functional safety assessment agenda (for items that have an ASIL D safety goal)						
				Annex E (inf	ormative) Guidance on potential interaction of functional safety with cybersec	urity43
				Bibliograph	V	45

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee, SC 32, *Electrical and electronic components and general system aspects*.

This edition of ISO 26262 series of standards cancels and replaces the edition ISO 26262:2011 series of standards, which has been technically revised and includes the following main changes:

- requirements for trucks, buses, trailers and semi-trailers;
- extension of the vocabulary;
- more detailed objectives;
- objective oriented confirmation measures;
- management of safety anomalies;
- references to cyber-security;
- updated target values for hardware architecture metrics;
- guidance on model based development and software safety analysis;
- evaluation of hardware elements;
- additional guidance on dependent failure analysis;
- guidance on fault tolerance, safety related special characteristics and software tools;
- guidance for semiconductors;
- requirements for motorcycles; and
- general restructuring of all parts for improved clarity.

ISO 26262-2:2018(E)

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.

A list of all parts in the ISO 26262 series can be found on the ISO website.