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Riktlinjer avseende aspekter på mänsklig tillförlitlighet

Guidance on human aspects of dependability

Som svensk standard gäller europastandarden EN 62508:2010. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62508:2010.

Nationellt förord

Europastandarden EN 62508:2010

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 62508, First edition, 2010 - Guidance on human aspects of dependability**

utarbetad inom International Electrotechnical Commission, IEC.

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Guidance on human aspects of dependability
(IEC 62508:2010)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 56/1365/FDIS, future edition 1 of IEC 62508, prepared by IEC TC 56, Dependability, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62508 on 2010-10-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2011-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2013-10-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62508:2010 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60812:2006	NOTE Harmonized as EN 60812:2006 (not modified).
ISO 6385:2004	NOTE Harmonized as EN ISO 6385:2004 (not modified).
ISO 9000:2005	NOTE Harmonized as EN ISO 9000:2005 (not modified).
ISO 9241-1:1997	NOTE Harmonized as EN ISO 9241-1:1997 (not modified).
ISO 9241-2:1992	NOTE Harmonized as EN ISO 9241-2:1993 (not modified).
ISO 9241-3:1992	NOTE Harmonized as EN 29241-3:1993 (not modified).
ISO 9241-4:1998	NOTE Harmonized as EN ISO 9241-4:1998 (not modified).
ISO 9241-5:1998	NOTE Harmonized as EN ISO 9241-5:1999 (not modified).
ISO 9241-6:1999	NOTE Harmonized as EN ISO 9241-6:1999 (not modified).
ISO 9241-7:1998	NOTE Harmonized as EN ISO 9241-7:1998 (not modified).
ISO 9241-8:1997	NOTE Harmonized as EN ISO 9241-8:1997 (not modified).
ISO 9241-9:2000	NOTE Harmonized as EN ISO 9241-9:2000 (not modified).
ISO 9241-11:1998	NOTE Harmonized as EN ISO 9241-11:1998 (not modified).
ISO 9241-12:1998	NOTE Harmonized as EN ISO 9241-12:1998 (not modified).
ISO 9241-13:1998	NOTE Harmonized as EN ISO 9241-13:1998 (not modified).
ISO 9241-15:1997	NOTE Harmonized as EN ISO 9241-15:1997 (not modified).
ISO 9241-16:1999	NOTE Harmonized as EN ISO 9241-16:1999 (not modified).
ISO 9241-17:1998	NOTE Harmonized as EN ISO 9241-17:1998 (not modified).

ISO 9241-20:2008	NOTE Harmonized as EN ISO 9241-20:2009 (not modified).
ISO 9241-110:2006	NOTE Harmonized as EN ISO 9241-110:2006 (not modified).
ISO 9241-151:2008	NOTE Harmonized as EN ISO 9241-151:2008 (not modified).
ISO 9241-171:2008	NOTE Harmonized as EN ISO 9241-171:2008 (not modified).
ISO 9241-210:2010	NOTE Harmonized as EN ISO 9241-210:2010 (not modified).
ISO 9241-300:2008	NOTE Harmonized as EN ISO 9241-300:2008 (not modified).
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ISO 9241-303:2008	NOTE Harmonized as EN ISO 9241-303:2008 (not modified).
ISO 9241-304:2008	NOTE Harmonized as EN ISO 9241-304:2008 (not modified).
ISO 9241-305:2008	NOTE Harmonized as EN ISO 9241-305:2008 (not modified).
ISO 9241-306:2008	NOTE Harmonized as EN ISO 9241-306:2008 (not modified).
ISO 9241-307:2008	NOTE Harmonized as EN ISO 9241-307:2008 (not modified).
ISO 9241-400:2007	NOTE Harmonized as EN ISO 9241-400:2007 (not modified).
ISO 9241-410:2008	NOTE Harmonized as EN ISO 9241-410:2008 (not modified).
ISO 11064-1	NOTE Harmonized as EN ISO 11064-1.
ISO 11064-2	NOTE Harmonized as EN ISO 11064-2.
ISO 11064-3	NOTE Harmonized as EN ISO 11064-3.
ISO 11064-4	NOTE Harmonized as EN ISO 11064-4.
ISO 11064-5	NOTE Harmonized as EN ISO 11064-5.
ISO 11064-6	NOTE Harmonized as EN ISO 11064-6.
ISO 11064-7	NOTE Harmonized as EN ISO 11064-7.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60300-1	2003	Dependability management - Part 1: Dependability management systems	EN 60300-1	2003
IEC 60300-2	-	Dependability management - Part 2: Guidelines for dependability management	EN 60300-2	-
IEC 60300-3-15	-	Dependability management - Part 3-15: Application guide - Engineering of system dependability	EN 60300-3-15	-

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INTRODUCTION

This International Standard provides guidelines on human aspects of dependability of systems. It fills the need for a standard to address the dependability of human/machine systems.

It gives guidance on how the human aspects of dependability can be considered at all the system life cycle stages, including ergonomic principles during design and human reliability understanding for system applications.

This standard provides an overview of the principles with some examples of the types of methods that can be used.

It is intended that a supporting standard, which describes more detailed methods that include quantification of human reliability will follow the issue of this standard in due course.

This standard contains recommendations, and does not include any requirements. Attention is drawn to the possibility of the existence of regulatory requirements for systems covered by the scope of this standard.

GUIDANCE ON HUMAN ASPECTS OF DEPENDABILITY

1 Scope

This International Standard provides guidance on the human aspects of dependability, and the human-centred design methods and practices that can be used throughout the whole system life cycle to improve dependability performance. This standard describes qualitative approaches. Examples of quantitative methods are given in Annex A.

This International Standard is applicable to any area of industry where human/machine relationships exist, and is intended for use by technical personnel and their managers.

This International standard is not intended to be used for certification, regulatory or contractual use.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60300-1:2003, *Dependability management – Part 1: Dependability management systems*

IEC 60300-2, *Dependability management – Part 2: Guidelines for dependability management*

IEC 60300-3-15, *Dependability management – Part 3-15: Application guide – Engineering of system dependability*