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Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

I.S. EN 60300-3-4:2008

ICS 03.100.40
03.120.01

**DEPENDABILITY MANAGEMENT -- PART 3
-4: APPLICATION GUIDE - GUIDE TO THE
SPECIFICATION OF DEPENDABILITY
REQUIREMENTS (IEC 60300-3-4:2007
(EQV))**

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EUROPEAN STANDARD

EN 60300-3-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2008

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English version

**Dependability management -
Part 3-4: Application guide -
Guide to the specification of dependability requirements
(IEC 60300-3-4:2007)**

Gestion de la sûreté de fonctionnement -
Partie 3-4: Guide d'application -
Spécification d'exigences de sûreté
de fonctionnement
(CEI 60300-3-4:2007)

Zuverlässigkeitsmanagement -
Teil 3-4: Anwendungsleitfaden -
Anleitung zum Festlegen von
Zuverlässigkeitsforderungen
(IEC 60300-3-4:2007)

This European Standard was approved by CENELEC on 2007-12-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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 56/1212/FDIS, future edition 2 of IEC 60300-3-4, prepared by IEC TC 56, Dependability, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60300-3-4 on 2007-12-01.

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) 2008-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2010-12-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60300-3-4:2007 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	NOTE	Harmonized as EN 60812:2006 (not modified).
IEC 61165	NOTE	Harmonized as EN 61165:2006 (not modified).
IEC 61508-1	NOTE	Harmonized as EN 61508-1:2001 (not modified).
IEC 61508-2	NOTE	Harmonized as EN 61508-2:2001 (not modified).
IEC 61508-3	NOTE	Harmonized as EN 61508-3:2001 (not modified).
IEC 61508-4	NOTE	Harmonized as EN 61508-4:2001 (not modified).
IEC 61508-5	NOTE	Harmonized as EN 61508-5:2001 (not modified).
IEC 61508-6	NOTE	Harmonized as EN 61508-6:2001 (not modified).
IEC 61508-7	NOTE	Harmonized as EN 61508-7:2001 (not modified).
IEC 61709	NOTE	Harmonized as EN 61709:1998 (not modified).

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 60050-191	– ¹⁾	International Electrotechnical Vocabulary (IEV) - Chapter 191: Dependability and quality of service	–	–
IEC 60300-1	– ¹⁾	Dependability management - Part 1: Dependability management systems	EN 60300-1	2003 ²⁾
IEC 60300-2	– ¹⁾	Dependability management - Part 2: Guidelines for dependability management	EN 60300-2	2004 ²⁾
IEC 60300-3-1	– ¹⁾	Dependability management - Part 3-1: Application guide - Analysis techniques for dependability - Guide on methodology	EN 60300-3-1	2004 ²⁾
IEC 60300-3-2	– ¹⁾	Dependability management - Part 3-2: Application guide - Collection of dependability data from the field	EN 60300-3-2	2005 ²⁾
IEC 60300-3-3	– ¹⁾	Dependability management - Part 3-3: Application guide - Life cycle costing	EN 60300-3-3	2004 ²⁾
IEC 60300-3-5	– ¹⁾	Dependability management - Part 3-5: Application guide - Reliability test conditions and statistical test principles	–	–
IEC 60300-3-10	– ¹⁾	Dependability management - Part 3-10: Application guide - Maintainability	–	–
IEC 60300-3-12	– ¹⁾	Dependability management - Part 3-12: Application guide - Integrated logistic support	EN 60300-3-12	2004 ²⁾
IEC 60300-3-14	– ¹⁾	Dependability management - Part 3-14: Application guide - Maintenance and maintenance support	EN 60300-3-14	2004 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60605-4	– ¹⁾	Equipment reliability testing - Part 4: Statistical procedures for exponential distribution - Point estimates, confidence intervals, prediction intervals and tolerance intervals	–	–
IEC 60605-6	– ¹⁾	Equipment reliability testing - Part 6: Tests for the validity and estimation of the constant failure rate and constant failure intensity	–	–
IEC 60706-2	– ¹⁾	Maintainability of equipment - Part 2: Maintainability requirements and studies during the design and development phase	EN 60706-2	2006 ²⁾
IEC 60706-3	– ¹⁾	Maintainability of equipment - Part 3: Verification and collection, analysis and presentation of data	EN 60706-3	2006 ²⁾
IEC 60706-5	– ¹⁾	Maintainability of equipment - Part 5: Testability and diagnostic testing	EN 60706-5	2007 ²⁾
IEC 61014	– ¹⁾	Programmes for reliability growth	EN 61014	2003 ²⁾
IEC 61025	– ¹⁾	Fault Tree Analysis (FTA)	EN 61025	2007 ²⁾
IEC 61070	– ¹⁾	Compliance test procedures for steady-state availability	–	–
IEC 61078	– ¹⁾	Analysis techniques for dependability - Reliability block diagram and Boolean methods	EN 61078	2006 ²⁾
IEC 61123	– ¹⁾	Reliability testing - Compliance test plans for success ratio	–	–
IEC 61124	– ¹⁾	Reliability testing - Compliance tests for constant failure rate and constant failure intensity	EN 61124	2006 ²⁾
IEC 61160	– ¹⁾	Design review	EN 61160	2005 ²⁾
IEC 61164	– ¹⁾	Reliability growth - Statistical test and estimation methods	EN 61164	2004 ²⁾
IEC 61508	Series	Functional safety of electrical/electronic/programmable electronic safety-related systems	EN 61508	Series
IEC 61649	– ¹⁾	Goodness-of-fit tests, confidence intervals and lower confidence limits for Weibull distributed data	–	–
IEC 61703	– ¹⁾	Mathematical expressions for reliability, availability, maintainability and maintenance support terms	EN 61703	2002 ²⁾
IEC 61710	– ¹⁾	Power law model - Goodness-of-fit tests and estimation methods	–	–
IEC 61713	– ¹⁾	Software dependability through the software life-cycle processes - Application guide	–	–

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