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## Tillförlitlighetsverksamhet – Del 1: Riktlinjer för ledning och tillämpning

*Dependability management –  
Part 1: Guidance for management and application*

Som svensk standard gäller europastandarden EN 60300-1:2014. Den svenska standarden innehåller den officiella engelska språkversionen av EN 60300-1:2014.

### Nationellt förord

Europastandarden EN 60300-1:2014

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60300-1, Third edition, 2014 - Dependability management - Part 1: Guidance for management and application**

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English Version

## Dependability management - Part 1: Guidance for management and application (IEC 60300-1:2014)

Gestion de la sûreté de fonctionnement - Partie 1: Lignes  
directrices pour la gestion et l'application  
(CEI 60300-1:2014)

Zuverlässigkeitsmanagement - Teil 1: Leitfaden für  
Management und Anwendung  
(IEC 60300-1:2014)

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

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## Foreword

The text of document 56/1550/FDIS, future edition 3 of IEC 60300-1, prepared by IEC TC 56, "Dependability"; was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60300-1:2014.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-09-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-06-27

This document supersedes EN 60300-1:2003 and EN 60300-2:2004.

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## Endorsement notice

The text of the International Standard IEC 60300-1:2014 was approved by CENELEC as a European Standard without any modification.

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

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## DEPENDABILITY MANAGEMENT –

### Part 1: Guidance for management and application

#### FOREWORD

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International Standard IEC 60300-1 has been prepared by IEC technical committee 56: Dependability.

This third edition cancels and replaces the second edition published in 2003 and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) an updating of definitions to reflect IEC 60050-191:2014;
- b) an enhanced description of dependability and its attributes;
- c) a more generic approach to dependability management;
- d) revised guidelines for application of dependability management;
- e) a more generic approach to the life cycle;

f) a framework for dependability standards.

In addition, this third edition cancels and replaces the second edition of document IEC 60300-2 published in 2004.

The text of this standard is based on the following documents:

FDIS	Report on voting
56/1550/FDIS	56/1556/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60300 series, published under the general title *Dependability management*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.



## INTRODUCTION

This part of IEC 60300 describes the processes involved in managing dependability within an organization and establishes a framework for managing dependability activities for the purpose of achieving dependability performance.

Dependability is the ability of an item to perform as and when required. Dependability is a term used to describe the time-dependent characteristics associated with the performance of an item. Dependability includes characteristics such as availability, reliability, maintainability and supportability under given conditions of use and maintenance support requirements. Dependability describes the extent to which something can be trusted to behave as expected.

Dependability creates trust and confidence and affects the ability of an organization to meet its objectives. It is achieved by effective planning and implementation of dependability activities throughout the life cycle of items.

Dependability has a strong impact on the user's perception of the value of an item developed or provided by an organization. Poor dependability will affect an organization's capability to deliver its objectives and reduce its reputation.

Dependability management provides a systematic approach for addressing dependability and related issues from an organizational and business perspective. Dependability is often driven by technology and requires the integration of innovation with legacy products. Achieving dependability throughout the life cycle process can be influenced by market dynamics, global economics and resource distributions, changing customer needs, and a competitive environment. Strategies need to adapt to anticipated changes to sustain viability in business operations. Dependability management focuses on the needs of stakeholders in optimizing dependability to enhance organizational objectives and return-on-investments.

This standard is written specifically for application to technological products, systems, processes and services, which are referred to in this standard by the general term "item". However, much of the guidance provided is generic and can be adapted for application in various non-technological applications. In addition, the potential side effects on safety, environment and other factors should be identified, analysed and managed when optimizing dependability.

The intended audience for this standard ranges from users, owners and customers to organizations involved in and responsible for ensuring dependability requirements are being met. Organizations include all types and sizes of corporations, public and private institutions such as in government agencies, business enterprises, and non-profit associations.

## **DEPENDABILITY MANAGEMENT –**

### **Part 1: Guidance for management and application**

#### **1 Scope**

This part of IEC 60300 establishes a framework for dependability management. It provides guidance on dependability management of products, systems, processes or services involving hardware, software and human aspects or any integrated combinations of these elements. It presents guidance on planning and implementation of dependability activities and technical processes throughout the life cycle taking into account other requirements such as those relating to safety and the environment.

This standard gives guidelines for management and their technical personnel to assist them to optimize dependability.

This standard is not intended for the purpose of certification.

#### **2 Normative references**

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

None.