Dependability management - Part 3-16: Application guide - Guidelines for the specification of maintenance support services



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60300-3-16:2008 sisaldab Euroopa standardi EN 60300-3-16:2008 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 05.12.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 14.11.2008.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60300-3-16:2008 consists of the English text of the European standard EN 60300-3-16:2008.

This standard is ratified with the order of Estonian Centre for Standardisation dated 05.12.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 14.11.2008.

The standard is available from Estonian standardisation organisation.

ICS 03.100.40, 03.120.01

Võtmesõnad:

Standardite reprodutseerimis- ja levitamisõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega: Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

EUROPEAN STANDARD

EN 60300-3-16

NORME EUROPÉENNE EUROPÄISCHE NORM

November 2008

ICS 03.100.40; 03.120.01

English version

Dependability management Part 3-16: Application guide Guidelines for specification of maintenance support services (IEC 60300-3-16:2008)

Gestion de la sûreté de conctionnement -Partie 3-16: Guide d'application -Lignes directrices pour la spécification des services de support de maintenance (CEI 60300-3-16:2008) Zuverlässigkeitsmanagement -Teil 3-16: Anwendungsleitfaden -Anleitung zur Spezifikation der Dienstleistungen für die Instandhaltungsunterstützung (IEC 60300-3-16:2008)

This European Standard was approved by CENELEC on 2008-11-01. 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 CENELECT 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 CENECE 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 systria, 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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 56/1271/FDIS, future edition 1 of IEC 60300-3-16, prepared by IEC TC 56, Dependability, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60300-3-16 on 2008-11-01.

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) 2009-08-01

 latest date by which the national standards conflicting with the EN have be withdrawn

(dow) 2011-11-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60300-3-16:2008 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

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

ISO 9000 NOTE Harmonized as ENGO 9000:2005 (not modified).

0,

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>	P ear	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60300-3-2	-00	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 - Pap 3-3: Application guide - Life cycle costing	EN 60300-3-3	2004 2)
IEC 60300-3-10	- ¹⁾	Dependability management - Part 3 P 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 poort	EN 60300-3-14	2004 2)
IEC 60706-2	_ 1)	Maintainability of equipment - Part 2: Maintainability equirements and studies during the design and development phase	EN 60706-2	2006 2)
IEC 62402	_ 1)	Obsolescence management application guide	EN 62402	2007 2)

²⁾ Valid edition at date of issue.

¹⁾ Undated reference.

CONTENTS

FOI	REWO)RD		3			
INT	RODU	JCTION	l	5			
1	Scope						
2	Normative references						
3	Terms, definitions and acronyms						
	3.1	Terms	and definitions	7			
	3.2	Acrony	/ris	8			
4	Spec	ification	maintenance support services	8			
	4.1	Purpos	se of using maintenance support services	8			
	4.2						
	4.3		maintenance support agreements				
		4.3.1	Maintenance labour	10			
		4.3.2	Spare parts	10			
		4.3.3	Training	10			
		4.3.4	Repairs and overhauls	10			
		4.3.5	Refurbishment and modifications				
	4.4						
	4.5	Long t	erm service agreements	11			
		4.5.1	Purpose Scope of a LTSA Performance guarantees Cole aspects	11			
		4.5.2	Scope of a LTSA	12			
		4.5.3	Performance guarantees	12			
	4.6	12					
		4.0.1	Design and development phase				
		4.6.2	Operation and maintenance phase	13			
		4.6.3	Obsolescence	13			
5	4.6.2 Operation and maintenance phase 4.6.3 Obsolescence Preparation of service agreements 5.1 Management responsibility 5.2 Process for selecting a service provider						
	5.1	.1 Management responsibility					
	5.2	Process for selecting a service provider					
	5.3	Purpos	se of a maintenance support service agreement	14			
	5.4	Prepar	ration of a maintenance agreement	14			
	5.5	Agree	ment structure and elements	14			
6	Management of maintenance agreements						
	6.1	Gener	al	15			
	6.2	Comm	unication	15			
	6.3	Monito	oring of agreement	15			
Anr	nex A	(informa	ative) Check-list for agreement structure and elements	16			
Bib	liogra	phy		22			
Fig	ure 1	– Interr	elationship between types of maintenance support services	9			

INTRODUCTION

The use of maintenance agreements is now a common means of providing maintenance support services to owners and operators of products, systems and equipment. These services may be included in the initial design and development phase but they may also be considered and implemented during the operation and maintenance phase.

Specification of maintenance support services requires not only the preparation of an agreement but also management and monitoring of services during its implementation. Agreements may be informal arrangements between the two parties or they may entail a formal contract. Maintenance support services can range in scope from simple ones that might entail repair of a specific type of item to long term, inclusive arrangements with guarantees based on a relevant measure of performance.

guarantees based on a relevant measure of performance.

The agreement must address responsibilities of both the service provider and the company (and possibly the responsibilities of any warrantee service provided, if another company is involved) with respect to sope and level of services, technical arrangements, organizational arrangements, commercial aspects, legal obligations and contractual requirements. This standard deals only with the service aspects of the agreement and not with legal or contractual requirements.

DEPENDABILITY MANAGEMENT -

Part 3-16: Application guide – Guidelines for specification of maintenance support services

1 Scope

This part of IEC 60300 describes a framework for the specification of services related to the maintenance support of products, systems and equipment that are carried out during the operation and maintenance phase. The purpose of this standard is to outline, in a generic manner, the development of agreements for maintenance support services as well as guidelines for the management and monitoring of these agreements by both the company and the service provider.

This standard is intended for use by a wide range of suppliers, maintenance support organizations and users and day be applied to all items. For consistency in this standard, the user, operator and owner are elected to as the company and the organization or vendor providing the maintenance support service is called the service provider.

This standard is applicable to items, which include all types of products, equipment and systems (hardware and software). Most of these require a certain level of maintenance to ensure that their required functionality dependability, capability, economic, safety and regulatory requirements are achieved.

NOTE For consistency, this standard will use the term item" as defined in 3.1.4, except where the context requires otherwise.

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 60300-3-2, Dependability management — Part 3-2: Application guide — Collection of dependability data from the field

IEC 60300-3-3, Dependability management – Part 3-3: Application guide – Life cycle costing

IEC 60300-3-10, Dependability management – Part 3-10: Application guide Maintainability

IEC 60300-3-12, Dependability management – Part 3-12: Application guide – Integrated logistic support

IEC 60300-3-14, Dependability management – Part 3-14: Application guide – Maintenance and maintenance support

IEC 60706-2, Maintainability of equipment – Part 2: Maintainability requirements and studies during the design and development phase

IEC 62402, Obsolescence management – Application guide