



**BSI Standards Publication**

## **Obsolescence management**

---

## National foreword

This British Standard is the UK implementation of EN IEC 62402:2019. It is identical to IEC 62402:2019. It supersedes BS EN 62402:2007, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee DS/1/2, Obsolescence management.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2019  
Published by BSI Standards Limited 2019

ISBN 978 0 580 96776 4

ICS 03.100.01; 21.020; 29.020

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2019.

### Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

---

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 62402**

July 2019

ICS 21.020

Supersedes EN 62402:2007 and all of its amendments  
and corrigenda (if any)

English Version

**Obsolescence management  
(IEC 62402:2019)**

Gestion de l'obsolescence  
(IEC 62402:2019)

Obsoleszenzmanagement  
(IEC 62402:2019)

This European Standard was approved by CENELEC on 2019-07-03. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## European foreword

The text of document 56/1838/FDIS, future edition 2 of IEC 62402, prepared by IEC/TC 56 "Dependability" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62402:2019.

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) 2020-04-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-07-03

This document supersedes EN 62402:2007 and all of its amendments and corrigenda (if any).

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

## Endorsement notice

The text of the International Standard IEC 62402:2019 was approved by CENELEC as a European Standard without any modification.

IEC 60300-1	NOTE	Harmonized as EN 60300-1
IEC 62239-1	NOTE	Harmonized as EN IEC 62239-1
IEC/ISO 31010	NOTE	Harmonized as EN 31010
IEC 62474	NOTE	Harmonized as EN IEC 62474
IEC 62668-1	NOTE	Harmonized as EN 62668-1 <sup>1</sup>
IEC 62435-1	NOTE	Harmonized as EN 62435-1
IEC 62435-4	NOTE	Harmonized as EN IEC 62435-4
IEC 62668-2	NOTE	Harmonized as EN IEC 62668-2 <sup>2</sup>

<sup>1</sup> Under preparation. Stage at the time of publication: prEN 62668-1

<sup>2</sup> Under preparation. Stage at the time of publication: FprEN IEC 62668-2

## CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references .....	8
3 Terms, definitions and abbreviated terms .....	8
3.1 Terms and definitions.....	8
3.2 Abbreviated terms.....	11
4 Obsolescence management.....	12
4.1 What is obsolescence .....	12
4.2 What is obsolescence management .....	13
4.3 Benefits of obsolescence management .....	13
4.4 Obsolescence management process .....	14
5 Obsolescence management policy.....	17
6 Infrastructure and organization .....	18
6.1 General.....	18
6.2 Management responsibilities .....	18
6.3 Obsolescence management organization .....	18
6.4 Customer/manufacturer management.....	18
6.5 Partnering agreements between organizations .....	19
7 Development of an OMP.....	19
7.1 OMP .....	19
7.2 OMP contents .....	19
8 Strategies to minimize obsolescence during design .....	21
8.1 Obsolescence as a consideration in design.....	21
8.2 Source code .....	21
8.3 Material characterization.....	21
8.4 Modularity.....	21
8.5 Transparency.....	21
8.6 Sustainable technologies including materials .....	22
8.7 Open standards .....	22
8.8 Obtaining IPR .....	22
8.9 Software licensing.....	22
8.10 Data acquisition .....	22
9 Obsolescence management approach .....	23
9.1 Introduction to risk assessment.....	23
9.2 Obsolescence monitoring.....	24
9.2.1 Monitoring background .....	24
9.2.2 Obsolescence notice monitoring .....	25
9.2.3 Direct contact monitoring .....	25
9.3 Risk assessment to select approach .....	25
9.4 Proactive approach .....	27
9.5 Reactive approach .....	27
10 Obsolescence resolutions.....	27
10.1 Resolution selection and implementation .....	27

10.2	Same item .....	28
10.3	Life of need buy .....	29
10.4	Substitutes .....	30
10.5	Emulation and reverse engineering .....	30
10.6	Design change .....	31
11	Measurement and improvement of obsolescence management activities .....	31
11.1	General .....	31
11.2	Metrics .....	31
Annex A (informative)	Vocabulary relating to obsolescence .....	33
Annex B (informative)	Obsolescence resolutions .....	36
B.1	Obsolescence management resolutions with EOP forecast .....	36
B.2	Obsolescence management resolutions with EOP announcement .....	37
B.3	Alternate manufacturers: example of a reactive approach in electronics .....	38
Annex C (informative)	Guidance on the effects of obsolescence .....	39
Annex D (informative)	Guidance on the OMP .....	40
Annex E (informative)	Examples of an obsolescence risk assessment .....	41
E.1	General .....	41
E.2	Example 1 .....	41
E.3	Example 2 .....	42
E.3.1	Risk assessment process .....	42
E.3.2	Likelihood assessment .....	43
E.3.3	Impact date assessment .....	43
E.3.4	Obsolescence risk .....	44
E.3.5	Review .....	44
Annex F (informative)	Example of an obsolescence management decision process .....	45
Bibliography	.....	47
Figure 1	– Obsolescence management activities .....	14
Figure 2	– Assessments identifying obsolescence risks and issues .....	15
Figure 3	– Item's life cycle versus obsolescence management activities .....	17
Figure 4	– Proactive versus reactive approaches with resolutions .....	24
Figure B.1	– Item production output with EOP forecast and obsolescence scenarios .....	36
Figure B.2	– Item production output at EOP announcement and obsolescence scenarios .....	37
Figure E.1	– Sample risk assessment process .....	43
Figure F.1	– Initial decision process to recommend obsolescence resolutions .....	45
Figure F.2	– Decision process to recommend obsolescence resolutions (long term repairs strategy) .....	46
Figure F.3	– Decision process to recommend obsolescence resolutions (LNB) .....	46
Table E.1	– Likelihood assessment .....	41
Table E.2	– Impact assessment .....	41
Table E.3	– Combination of likelihood and impact assessment .....	42

Table E.4 – Level of proactive approach assessment.....	42
Table E.5 – EOP forecast .....	43
Table E.6 – Number of approved manufacturers .....	43
Table E.7 – Likelihood .....	43
Table E.8 – Impact date .....	44
Table E.9 – Risk level .....	44
Table E.10 – Obsolescence risk review.....	44