
Upravljanje procesov v avioniki - Preprečevanje ponarejanja - 1. del: Izogibanje uporabi ponarejenih, lažnih in recikliranih elektronskih komponent (IEC 62668-1:2019)

Process management for avionics - Counterfeit prevention - Part 1: Avoiding the use of counterfeit, fraudulent and recycled electronic components (IEC 62668-1:2019)

Luftfahrtelektronik-Prozessmanagement - Verhinderung von Produktfälschung - Teil 1: Vermeidung des Gebrauchs von gefälschten, betrügerischen und wiederverwerteten elektronischen Bauelementen (IEC 62668-1:2019)

Gestion des processus pour l'avionique - Prévention de la contrefaçon - Partie 1: Prévention de l'utilisation de composants électroniques contrefaits, frauduleux et recyclés (IEC 62668-1:2019)

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1: Avoiding the use of counterfeit, fraudulent and recycled
electronic components
(IEC 62668-1:2019)

Gestion des processus pour l'avionique - Prévention de la
contrefaçon - Partie 1: Prévention de l'utilisation de
composants électroniques contrefaits, frauduleux et
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Luftfahrtelektronik-Prozessmanagement - Verhinderung von
Produktfälschung - Teil 1: Vermeidung des Gebrauchs von
gefälschten, betrügerischen und wiederverwerteten
elektronischen Bauelementen
(IEC 62668-1:2019)

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European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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EN IEC 62668-1:2019 (E)**European foreword**

The text of document 107/335/CDV, future edition 1 of IEC 62668-1, prepared by IEC/TC 107 "Process management for avionics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62668-1:2019.

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) 2020-07-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-10-21

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

ISO 14001 NOTE Harmonized as EN ISO 14001

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62239-1	-	Process management for avionics Management plan - Part 1: Preparation and maintenance of an electronic components management plan	- EN IEC 62239-1	-
IEC 62668-2	-	Process management for avionics Counterfeit prevention - Part 2: Managing electronic components from non-franchised sources	- EN IEC 62668-2	-
ISO 9001	-	Quality management systems Requirements	- EN ISO 9001	-
-	-	Quality Management Systems Requirements for Aviation, Space and Defense Organizations	- AS/EN/JISQ 9100	-
-	-	Quality Maintenance Systems – Aerospace – Requirements for Maintenance Organizations	- AS/EN/JISQ 9110	-

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**Process management for avionics – Counterfeit prevention –
Part 1: Avoiding the use of counterfeit, fraudulent and recycled electronic
components**

**Gestion des processus pour l'avionique – Prévention de la contrefaçon –
Partie 1: Prévention de l'utilisation de composants électroniques contrefaits,
frauduleux et recyclés**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PROCESS MANAGEMENT FOR AVIONICS –
COUNTERFEIT PREVENTION –****Part 1: Avoiding the use of counterfeit, fraudulent
and recycled electronic components**

FOREWORD

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International Standard IEC 62668-1 has been prepared by IEC technical committee 107: Process management for avionics.

This first edition cancels and replaces the third edition of IEC TS 62668-1 published in 2016. This edition constitutes a technical revision.

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

- a) added a reference to AS/EN/JISQ 9100 and AS/EN/JISQ 9110 which contain anti-counterfeit requirements which may be used to satisfy the requirements of 4.2;
- b) added reference to USA DFAR rule 252.246.7008 and to UK Defence Standard 05-135;
- c) added reference to more GAO, OECD and ICC reports in 4.5.1;

- d) updated weblinks and other references;
- e) added new Annex E with figures describing how anti-counterfeit documents can be used in supply chains;
- f) added a reference to the new IECQ OD 3702 traceability audit;
- g) added new definition for re-manufactured components with a warning that these are not recommended.

The text of this International Standard is based on the following documents:

CDV	Report on voting
107/335/CDV	107/346A/RVC

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

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

A list of all parts in the IEC 62668 series, published under the general title *Process management for avionics – Counterfeit prevention*, can be found on the IEC website.

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

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


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PROCESS MANAGEMENT FOR AVIONICS – COUNTERFEIT PREVENTION –

Part 1: Avoiding the use of counterfeit, fraudulent and recycled electronic components

1 Scope

This part of IEC 62668 defines requirements for avoiding the use of counterfeit, recycled and fraudulent components used in the aerospace, defence and high performance (ADHP) industries. It also defines requirements for ADHP industries to maintain their intellectual property (IP) for all of their products and services. The risks associated with purchasing components outside of franchised distributor networks are considered in IEC 62668-2. Although developed for the avionics industry, this document can be applied by other high performance and high reliability industries at their discretion.

NOTE IEC 62668 (all parts) does not address the restriction on the re-use of a component in maintenance, repair and overhaul (MRO) operations and only addresses MRO activities when they are under the OEM's responsibility.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

[SIST EN IEC 62668-1:2020](https://standards.iteh.ai/catalog/standards/sist/d50f7fe7-c1a3-448e-9a0f-7a27f4444444/iec-62668-1-2020)

[https://standards.iteh.ai/catalog/standards/sist/d50f7fe7-c1a3-448e-9a0f-](https://standards.iteh.ai/catalog/standards/sist/d50f7fe7-c1a3-448e-9a0f-7a27f4444444/iec-62668-1-2020)

IEC 62239-1, *Process management for avionics – Management plan – Part 1: Preparation and maintenance of an electronic components management plan*

IEC 62668-2, *Process management for avionics – Counterfeit prevention – Part 2: Managing electronic components from non-franchised sources*

ISO 9001, *Quality management systems – Requirements*

AS/EN/JISQ 9100, *Quality Management Systems – Requirements for Aviation, Space and Defense Organizations*

AS/EN/JISQ 9110, *Quality Maintenance Systems – Aerospace – Requirements for Maintenance Organizations*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1.1**aftermarket source**

reseller which may or may not be under contract with the original component manufacturer (OCM), or is sometimes a component “re-manufacturer”, under contract with the OCM

Note 1 to entry: The reseller accumulates inventories of encapsulated or non-encapsulated (wafer) components whose end of life date has been published by the OCM. These components are then resold at a profit to fill a need within the market for components that have become obsolete.

3.1.2**broker**

individual or corporate organization that serves as an intermediary between buyer and seller

Note 1 to entry: In the electronic component sector a broker specifically seeks to supply obsolete or hard to find components in order to turn a profit. To do so it may accumulate an inventory of components considered to be of strategic value or may rely on inventories accumulated by others. The broker operates within a worldwide component exchange network.

3.1.3**COTS product****commercial off-the-shelf product**

one or more components, assembled and developed for multiple commercial consumers, whose design and/or configuration is controlled by the manufacturer's specification or industry standard

Note 1 to entry: COTS products can include electronic components, subassemblies or assemblies, or top level assemblies. Electronic COTS subassemblies or assemblies include circuit card assemblies, power supplies, hard drives, and memory modules. Top-level COTS assemblies include a fully integrated rack of equipment such as raid arrays, file servers to individual switches, routers, personal computers, or similar equipment.

Note 2 to entry: This note applies to the French language only.

3.1.4**counterfeit, verb**

action of simulating, reproducing or modifying a material good or its packaging without authorization

Note 1 to entry: It is the practice of producing products which are imitations or are fake goods or services. This activity infringes the intellectual property rights of the original manufacturer and is an illegal act. Counterfeiting generally relates to wilful trademark infringement.

3.1.5**counterfeited component**

material good imitating or copying an authentic material good which may be covered by the protection of one or more registered or confidential intellectual property rights

Note 1 to entry: A counterfeited component is one whose identity or pedigree has been altered or misrepresented by its supplier.

Identity = original manufacturer, part number, date code, lot number, testing, inspection, documentation or warranty, etc.

Pedigree = origin, ownership history, storage, handling, physical condition, previous use, etc.

Note 2 to entry: When a material good has no registered or confidential intellectual property rights, then the material good has no intellectual property protection. Examples include situations where the original component manufacturer (OCM) has ceased to trade and has not sold or passed on the intellectual property rights to another entity.

3.1.6**customer device specification**

device specification written by a user and agreed by the supplier