

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**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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CONTENTS

FOREWORD.....	6
1 Scope.....	8
2 Normative references	8
3 Terms, definitions and abbreviated terms	8
3.1 Terms and definitions.....	8
3.2 Abbreviated terms.....	13
4 Technical requirements	15
4.1 General.....	15
4.2 Minimum avionics OEM requirements	16
4.3 Intellectual property	19
4.3.1 General	19
4.3.2 Definition of intellectual property.....	20
4.4 Counterfeit consideration	20
4.4.1 General	20
4.4.2 Legal definition of counterfeit.....	21
4.4.3 Fraudulent components	21
4.4.4 How to establish traceability	21
4.4.5 Reasons for the loss of component traceability	22
4.5 The counterfeit problem	22
4.5.1 General	22
4.5.2 General worldwide activities combating counterfeit issues	23
4.5.3 Cultural differences	23
4.5.4 Counterfeiting activities and avionics equipment.....	23
4.5.5 Electronic components direct action groups	26
4.6 Recycled components	26
4.6.1 General	26
4.6.2 Why the avionics industry does not use recycled components	27
4.6.3 How recycled components become suspect and potentially fraudulent.....	27
4.7 Original component manufacturer (OCM) anti-counterfeit guidelines	27
4.7.1 General	27
4.7.2 Chinese Reliable Electronic Component Supplier (RECS) audit scheme	28
4.7.3 Original component manufacturer (OCM) ISO 9001 and AS/EN/JISQ 9100 Third Party Certification	28
4.7.4 Original component manufacturer's (OCM) trademarks	28
4.7.5 Original component manufacturer's (OCM) IP control.....	28
4.7.6 Original component manufacturer's (OCM) physical part marking and packaging marking.....	28
4.7.7 The Semiconductor Industries Association Anti Counterfeit Task Force (ACTF)	29
4.7.8 USA Trusted Foundry Program	29
4.7.9 USA Trusted IC Supplier Accreditation Program	30
4.7.10 Physical unclonable function (PUF)	30
4.7.11 Original component manufacturer (OCM) best practice	30
4.8 Distributor minimum accreditations	30
4.9 Distributor AS/EN/JISQ 9120 Third Party Certification.....	31
4.10 Franchised distributor network	31
4.10.1 General	31

4.10.2	SAE AS6496.....	32
4.10.3	Control stock through tracking schemes	32
4.10.4	Control of scrap	33
4.10.5	RECS	33
4.11	Non-franchised distributor anti-counterfeit guidelines	33
4.11.1	General	33
4.11.2	CCAP-101 certified program for independent distributor	33
4.11.3	SAE AS6081.....	33
4.11.4	OEM managed non-franchised distributors	34
4.11.5	Brokers.....	34
4.12	Avionics OEM anti-counterfeit guidelines when procuring components.....	34
4.12.1	Anti-counterfeiting general approach	34
4.12.2	Buy from approved sources	34
4.12.3	Traceable components	34
4.12.4	Certificate of conformance and packing slip.....	35
4.12.5	Plan and buy sufficient quantities	36
4.12.6	Use of non- franchised distributors	36
4.12.7	Brokers.....	36
4.12.8	Contact the original manufacturer	37
4.12.9	Obsolete components and franchised aftermarket sources	37
4.12.10	IEC 62239-1 approved alternatives	37
4.12.11	Product redesign	37
4.12.12	Non traceable components	38
4.12.13	OEM anti-counterfeit plans including SAE AS5553 and SAE AS6174.....	38
4.13	OEM anti-counterfeit guidelines for their products.....	43
4.13.1	IP control.....	43
4.13.2	Tamper-proofing the OEM design	43
4.13.3	Tamper-proof labels.....	43
4.13.4	Use of ASICs and FPGAs with IP protection features.....	43
4.13.5	Control the final OEM product marking	44
4.13.6	Control OEM scrap	44
4.13.7	OEM trademarks and logos.....	44
4.13.8	Control delivery of OEM products and spares and their useful life.....	44
4.13.9	MRO activities	45
4.14	Counterfeit, fraud and component recycling reporting	46
4.14.1	General	46
4.14.2	USA FAA suspected unapproved parts (SUP) program	46
4.14.3	EASA.....	46
4.14.4	UK counterfeit reporting.....	46
4.14.5	EU counterfeit reporting.....	46
4.14.6	UKEA anti-counterfeiting forum.....	46
4.15	Anti-counterfeit awareness training	46
4.16	Information to support the management of the supply chain.....	47
Annex A	(informative) Useful contacts	48
A.1	World Intellectual Property Organization (WIPO).....	48
A.1.1	General	48
A.1.2	What is WIPO?	48
A.1.3	WIPO Intellectual Property Services	49
A.1.4	WIPO global network on Intellectual Property (IP) Academies.....	50

A.2	Anti-Counterfeiting Trade Agreement (ACTA).....	50
A.2.1	ACTA.....	50
A.2.2	Global Anti-Counterfeiting Network (GACG).....	51
A.3	World Semiconductor Council (WSC) and GAMS	51
A.4	SEMI.....	52
A.5	Electronics Authorized Directory	53
A.6	UK	53
A.6.1	The UK intellectual property office	53
A.6.2	Alliance for IP	54
A.6.3	UK Chartered Trading Standards Institute.....	54
A.6.4	UK HM Revenue and Customs.....	54
A.6.5	Anti-Counterfeiting Forum.....	54
A.6.6	Electronic Component Supplier Network (ESCN)	55
A.6.7	UK Ministry of Defence	55
A.7	Europe.....	55
A.7.1	Europa Summaries of EU Legislation.....	55
A.7.2	Europol, the European Law Enforcement Agency.....	55
A.7.3	European Patent Office	55
A.7.4	EUIPO	55
A.7.5	European Aviation Safety Agency (EASA)	56
A.7.6	IECQ audit schemes	57
A.7.7	BEAMA.....	57
A.8	USA.....	57
A.8.1	United States Patent and Trademark Office	57
A.8.2	The International Trade Administration, US Department of Commerce.....	58
A.8.3	International Intellectual Property Alliance	58
A.8.4	The Federal Aviation Administration (FAA)	58
A.8.5	Trusted Access Program Office (TAPO).....	59
A.8.6	Independent Distributors of Electronics Association (IDEA)	59
A.8.7	ECIA formerly National Electronic Distributors Association (NEDA)	60
A.8.8	Components Technology Institute Inc. (CTI)	61
A.8.9	Defense Logistics Agency (DLA).....	61
A.8.10	DFARS	61
A.8.11	IAQG	62
A.8.12	USA Homeland Security	62
A.9	China.....	62
A.9.1	CNIPA.	62
A.9.2	Chinese Patent and Trademark Office	62
A.9.3	China Electronics Associations:.....	62
A.9.4	China Quality Certification Centre (CQC).....	62
A.9.5	Civil Aviation Administration of China (CAAC).....	62
A.9.6	China lawinfo.Co Ltd., for Law info China	62
A.10	Japan – Japanese Patent Office (JPO)	63
A.11	Physical unclonable function	63
A.12	PUF and tags initiative and solutions	64
A.12.1	The Hardware Intrinsic Security (HIS) initiative	64
A.12.2	Examples of tag providers	64
A.13	Examples of tamper-proof design companies	65
A.14	Examples of FPGA die serialization	65

A.15	Examples of NVRAM manufacturers	65
A.16	SAE G-19	65
A.17	iNEMI.....	69
A.18	OECD	69
A.19	ICC	69
A.20	Applied DNA Sciences	70
A.21	Safety Directors' Forum	70
A.22	'Stop fake bearings' video	70
A.23	Industrial company's online anti-counterfeit awareness training	70
A.24	Subscription based anti-counterfeit awareness training.....	70
A.25	USA Government anti-counterfeit publications and awareness training	70
A.26	IECQ WG6	71
A.27	Anti-counterfeiting videos.....	71
Annex B	(informative) Examples of aftermarket sources	72
B.1	Examples of franchised aftermarket sources	72
B.2	Examples of sources of franchised die which can be packaged.....	72
B.3	Examples of third party custom packaging houses which provide aftermarket solutions	72
B.4	Examples of emulated aftermarket providers.....	72
Annex C	(informative) Typical example of a RECS certificate.....	74
Annex D	(informative) Flowchart of IEC 62668-1 requirements	75
Annex E	(Informative) Typical use of anti-counterfeit standards in supply chains	77
Bibliography		83
Figure 1	– Suspect components perimeter	21
Figure D.1	– Flowchart of IEC 62668-1 requirements and their relationship to external standards.....	76
Figure E.1	– Available anti-counterfeit standards for supply chains.....	77
Figure E.2	– Overview of typical relationships for anti-counterfeit standards in an avionics supply chain.....	79
Figure E.3	– Overview of typical anti-counterfeit standards in an avionics OEM supply chain.....	80
Figure E.4	– IECQ OD 3702 traceability audit	81
Figure E.5	– Typical IECQ OD 3702 coverage in any supply chain.....	82
Table 1	– Anti-counterfeit awareness training guidelines.....	18
Table.2	– IEC 62668-1 requirements satisfied or not if OEM has an approved SAE AS5553A plan.....	39
Table.3	– IEC 62668-1 requirements satisfied or not if OEM has an approved SAE AS5553B plan.....	41

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

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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.

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>