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

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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 23
4.5.1 General 23
4.5.2 General worldwide activities combating counterfeit issues 23
4.5.3 Cultural differences 24
4.5.4 Counterfeiting activities and avionics equipment 24
4.5.5 Electronic components direct action groups 27
4.6 Recycled components 27
4.6.1 General 27
4.6.2 Why the avionics industry does not use recycled components 27
4.6.3 How recycled components become suspect and potentially fraudulent 28
4.7 Original component manufacturer (OCM) anti-counterfeit guidelines 28
4.7.1 General 28
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 29
4.7.6 Original component manufacturer's (OCM) physical part marking and packaging marking 29
4.7.7 The Semiconductor Industries Association Anti Counterfeit Task Force (ACTF) 29
4.7.8 USA Trusted Foundry Program 30
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 31
4.8 Distributor minimum accreditations 31
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 33
4.10.3 Control stock through tracking schemes 33
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 34
4.11.3 SAE AS6081 34
4.11.4 OEM managed non-franchised distributors 34
4.11.5 Brokers 34
4.12 Avionics OEM anti-counterfeit guidelines when procuring components 35
4.12.1 Anti-counterfeiting general approach 35
4.12.2 Buy from approved sources 35
4.12.3 Traceable components 35
4.12.4 Certificate of conformance and packing slip 36
4.12.5 Plan and buy sufficient quantities 36
4.12.6 Use of non- franchised distributors 37
4.12.7 Brokers 37
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 38
4.12.11 Product redesign 38
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 45
4.13.1 IP control 45
4.13.2 Tamper-proofing the OEM design 46
4.13.3 Tamper-proof labels 46
4.13.4 Use of ASICs and FPGAs with IP protection features 46
4.13.5 Control the final OEM product marking 46
4.13.6 Control OEM scrap 47
4.13.7 OEM trademarks and logos 47
4.13.8 Control delivery of OEM products and spares and their useful life 47
4.13.9 MRO activities 47
4.14 Counterfeit, fraud and component recycling reporting 48
4.14.1 General 48
4.14.2 USA FAA suspected unapproved parts (SUP) program 48
4.14.3 EASA 49
4.14.4 UK counterfeit reporting 49
4.14.5 EU counterfeit reporting 49
4.14.6 UKEA anti-counterfeiting forum 49
4.15 Anti-counterfeit awareness training 49
4.16 Information to support the management of the supply chain 49
Annex A (informative) Useful contacts 50
A.1 World Intellectual Property Organization (WIPO) 50
A.1.1 General 50
A.1.2 What is WIPO? 50
A.1.3 WIPO Intellectual Property Services 51
A.1.4 WIPO global network on Intellectual Property (IP) Academies 52

A.2 Anti-Counterfeiting Trade Agreement (ACTA) 52
A.2.1 ACTA 52
A.2.2 Global Anti-Counterfeiting Network (GACG) 53
A.3 World Semiconductor Council (WSC) and GAMS 53
A.4 SEMI 54
A.5 Electronics Authorized Directory 55
A.6 UK 55
A.6.1 The UK intellectual property office 55
A.6.2 Alliance for IP 56
A.6.3 UK Chartered Trading Standards Institute 56
A.6.4 UK HM Revenue and Customs 56
A.6.5 Anti-Counterfeiting Forum 56
A.6.6 Electronic Component Supplier Network (ESCN) 57
A.6.7 UK Ministry of Defence 57
A.7 Europe 57
A.7.1 Europa Summaries of EU Legislation 57
A.7.2 Europol, the European Law Enforcement Agency 57
A.7.3 European Patent Office 57
A.7.4 EUIPO 57
A.7.5 European Aviation Safety Agency (EASA) 58
A.7.6 IECQ audit schemes 59
A.7.7 BEAMA 59
A.8 USA 59
A.8.1 United States Patent and Trademark Office 59
A.8.2 The International Trade Administration, US Department of Commerce 60
A.8.3 International Intellectual Property Alliance 60
A.8.4 The Federal Aviation Administration (FAA) 60
A.8.5 Trusted Access Program Office (TAPO) 61
A.8.6 Independent Distributors of Electronics Association (IDEA) 61
A.8.7 ECIA formerly National Electronic Distributors Association (NEDA) 62
A.8.8 Components Technology Institute Inc. (CTI) 63
A.8.9 Defense Logistics Agency (DLA) 63
A.8.10 DFARS 63
A.8.11 IAQG 64
A.8.12 USA Homeland Security 64
A.9 China 64
A.9.1 CNIPA 64
A.9.2 Chinese Patent and Trademark Office 64
A.9.3 China Electronics Associations: 64
A.9.4 China Quality Certification Centre (CQC) 64
A.9.5 Civil Aviation Administration of China (CAAC) 64
A.9.6 China lawinfo.Co Ltd., for Law info China 64
A.10 Japan – Japanese Patent Office (JPO) 65
A.11 Physical unclonable function 65
A.12 PUF and tags initiative and solutions 66
A.12.1 The Hardware Intrinsic Security (HIS) initiative 66
A.12.2 Examples of tag providers 66
A.13 Examples of tamper-proof design companies 67
A.14 Examples of FPGA die serialization 67

A.15 Examples of NVRAM manufacturers 67
A.16 SAE G-19 67
A.17 iNEMI 72
A.18 OECD 72
A.19 ICC 72
A.20 Applied DNA Sciences 72
A.21 "Safety Directors" Forum 72
A.22 "Stop fake bearings" video 72
A.23 Industrial company's online anti-counterfeit awareness training 73
A.24 Subscription based anti-counterfeit awareness training 73
A.25 USA Government anti-counterfeit publications and awareness training 73
A.26 IECQ WG6 73
A.27 Anti-counterfeiting videos 73
Annex B (informative) Examples of aftermarket sources 74
B.1 Examples of franchised aftermarket sources 74
B.2 Examples of sources of franchised die which can be packaged 74
B.3 Examples of third party custom packaging houses which provide aftermarket solutions 74
B.4 Examples of emulated aftermarket providers 74
Annex C (informative) Typical example of a RECS certificate 76
Annex D (informative) Flowchart of IEC 62668-1 requirements 77
Annex E (Informative) Typical use of anti-counterfeit standards in supply chains 80
Bibliography 88

Figure 1 – Suspect components perimeter 21
Figure 2 – Typical IEC 62668-1 and SAE AS5553 traceability requirements approach 22
Figure D.1 – Flowchart of IEC 62668-1 requirements and their relationship to external standards 79
Figure E.1 – Available anti-counterfeit standards for supply chains 80
Figure E.2 – Overview of typical relationships for anti-counterfeit standards in an avionics supply chain 84
Figure E.3 – Overview of typical anti-counterfeit standards in an avionics OEM supply chain 85
Figure E.4 – IECQ OD 3702 traceability audit 86
Figure E.5 – Typical IECQ OD 3702 coverage in any supply chain 87

Table 1 – Anti-counterfeit awareness training guidelines 18
~~Table 2 – IEC 62668-1 requirements satisfied or not if OEM has an approved .....~~
Table 3 – IEC 62668-1 requirements satisfied or not if OEM has an approved SAE ~~AS5553B~~ AS5553D plan 42

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_____

PROCESS MANAGEMENT FOR AVIONICS – COUNTERFEIT PREVENTION –

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

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

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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.

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 and its amendment will remain unchanged until the stability date indicated on the IEC website under 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*

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 23
4.5.1 General 23
4.5.2 General worldwide activities combating counterfeit issues 23
4.5.3 Cultural differences 24
4.5.4 Counterfeiting activities and avionics equipment 24
4.5.5 Electronic components direct action groups 27
4.6 Recycled components 27
4.6.1 General 27
4.6.2 Why the avionics industry does not use recycled components 27
4.6.3 How recycled components become suspect and potentially fraudulent 28
4.7 Original component manufacturer (OCM) anti-counterfeit guidelines 28
4.7.1 General 28
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 29
4.7.6 Original component manufacturer's (OCM) physical part marking and packaging marking 29
4.7.7 The Semiconductor Industries Association Anti Counterfeit Task Force (ACTF) 29
4.7.8 USA Trusted Foundry Program 30
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 31
4.8 Distributor minimum accreditations 31
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 33
4.10.3 Control stock through tracking schemes 33
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 34
4.11.3 SAE AS6081 34
4.11.4 OEM managed non-franchised distributors 34
4.11.5 Brokers 34
4.12 Avionics OEM anti-counterfeit guidelines when procuring components 35
4.12.1 Anti-counterfeiting general approach 35
4.12.2 Buy from approved sources 35
4.12.3 Traceable components 35
4.12.4 Certificate of conformance and packing slip 36
4.12.5 Plan and buy sufficient quantities 36
4.12.6 Use of non- franchised distributors 37
4.12.7 Brokers 37
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 38
4.12.11 Product redesign 38
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 41
4.13.1 IP control 41
4.13.2 Tamper-proofing the OEM design 41
4.13.3 Tamper-proof labels 42
4.13.4 Use of ASICs and FPGAs with IP protection features 42
4.13.5 Control the final OEM product marking 42
4.13.6 Control OEM scrap 43
4.13.7 OEM trademarks and logos 43
4.13.8 Control delivery of OEM products and spares and their useful life 43
4.13.9 MRO activities 43
4.14 Counterfeit, fraud and component recycling reporting 44
4.14.1 General 44
4.14.2 USA FAA suspected unapproved parts (SUP) program 44
4.14.3 EASA 44
4.14.4 UK counterfeit reporting 44
4.14.5 EU counterfeit reporting 44
4.14.6 UKEA anti-counterfeiting forum 44
4.15 Anti-counterfeit awareness training 45
4.16 Information to support the management of the supply chain 45
Annex A (informative) Useful contacts 46
A.1 World Intellectual Property Organization (WIPO) 46
A.1.1 General 46
A.1.2 What is WIPO? 46
A.1.3 WIPO Intellectual Property Services 47
A.1.4 WIPO global network on Intellectual Property (IP) Academies 48

A.2 Anti-Counterfeiting Trade Agreement (ACTA) 48
A.2.1 ACTA 48
A.2.2 Global Anti-Counterfeiting Network (GACG) 49
A.3 World Semiconductor Council (WSC) and GAMS 49
A.4 SEMI 50
A.5 Electronics Authorized Directory 51
A.6 UK 51
A.6.1 The UK intellectual property office 51
A.6.2 Alliance for IP 52
A.6.3 UK Chartered Trading Standards Institute 52
A.6.4 UK HM Revenue and Customs 52
A.6.5 Anti-Counterfeiting Forum 52
A.6.6 Electronic Component Supplier Network (ESCN) 53
A.6.7 UK Ministry of Defence 53
A.7 Europe 53
A.7.1 Europa Summaries of EU Legislation 53
A.7.2 Europol, the European Law Enforcement Agency 53
A.7.3 European Patent Office 53
A.7.4 EUIPO 53
A.7.5 European Aviation Safety Agency (EASA) 54
A.7.6 IECQ audit schemes 55
A.7.7 BEAMA 55
A.8 USA 55
A.8.1 United States Patent and Trademark Office 55
A.8.2 The International Trade Administration, US Department of Commerce 56
A.8.3 International Intellectual Property Alliance 56
A.8.4 The Federal Aviation Administration (FAA) 56
A.8.5 Trusted Access Program Office (TAPO) 57
A.8.6 Independent Distributors of Electronics Association (IDEA) 57
A.8.7 ECIA formerly National Electronic Distributors Association (NEDA) 58
A.8.8 Components Technology Institute Inc. (CTI) 59
A.8.9 Defense Logistics Agency (DLA) 59
A.8.10 DFARS 59
A.8.11 IAQG 60
A.8.12 USA Homeland Security 60
A.9 China 60
A.9.1 CNIPA 60
A.9.2 Chinese Patent and Trademark Office 60
A.9.3 China Electronics Associations: 60
A.9.4 China Quality Certification Centre (CQC) 60
A.9.5 Civil Aviation Administration of China (CAAC) 60
A.9.6 China lawinfo.Co Ltd., for Law info China 60
A.10 Japan – Japanese Patent Office (JPO) 61
A.11 Physical unclonable function 61
A.12 PUF and tags initiative and solutions 62
A.12.1 The Hardware Intrinsic Security (HIS) initiative 62
A.12.2 Examples of tag providers 62
A.13 Examples of tamper-proof design companies 63
A.14 Examples of FPGA die serialization 63

A.15 Examples of NVRAM manufacturers 63
A.16 SAE G-19 63
A.17 iNEMI 67
A.18 OECD 67
A.19 ICC 67
A.20 Applied DNA Sciences 68
A.21 "Safety Directors" Forum 68
A.22 "Stop fake bearings" video 68
A.23 Industrial company's online anti-counterfeit awareness training 68
A.24 Subscription based anti-counterfeit awareness training 68
A.25 USA Government anti-counterfeit publications and awareness training 68
A.26 IECQ WG6 69
A.27 Anti-counterfeiting videos 69
Annex B (informative) Examples of aftermarket sources 70
B.1 Examples of franchised aftermarket sources 70
B.2 Examples of sources of franchised die which can be packaged 70
B.3 Examples of third party custom packaging houses which provide aftermarket solutions 70
B.4 Examples of emulated aftermarket providers 70
Annex C (informative) Typical example of a RECS certificate 72
Annex D (informative) Flowchart of IEC 62668-1 requirements 73
Annex E (Informative) Typical use of anti-counterfeit standards in supply chains 74
Bibliography 80

Figure 1 – Suspect components perimeter 21
Figure 2 – Typical IEC 62668-1 and SAE AS5553 traceability requirements approach 22
Figure D.1 – Flowchart of IEC 62668-1 requirements and their relationship to external standards 73
Figure E.1 – Available anti-counterfeit standards for supply chains 74
Figure E.2 – Overview of typical relationships for anti-counterfeit standards in an avionics supply chain 76
Figure E.3 – Overview of typical anti-counterfeit standards in an avionics OEM supply chain 77
Figure E.4 – IECQ OD 3702 traceability audit 78
Figure E.5 – Typical IECQ OD 3702 coverage in any supply chain 79

Table 1 – Anti-counterfeit awareness training guidelines 18
Table 3 – IEC 62668-1 requirements satisfied or not if OEM has an approved SAE AS5553D plan 39

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_____

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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*