



Agency Standards Reference Guide

Document Number and Revision: PROC-10085 Rev 15

Overview

This document lists the primary electromagnetic compatibility (EMC), safety, telecommunications and restriction of hazardous substances (RoHS) standards that Oracle requires for our products. This document is intended to be the primary reference source for these Agency standards and is the only source that the Global Market Access – Laws team will update with important legal standards changes.

Audience

Third party suppliers, Oracle Engineering, Oracle Sourcing and Hardware Technical Compliance Engineering

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1. Introduction

This document lists the primary electromagnetic compatibility (EMC), safety, telecommunications and restriction of hazardous substances (RoHS) standards that Oracle requires for our products. It is intended to be the primary reference source for these Agency standards and is the only source that the Global Market Access – Laws team will update with important legal standards changes. If there is a question concerning which version of standard is currently legally required and used by Oracle, this is the document that should be referenced and that will take precedence over any other competing document.

NOTE: The dates listed in braces “{}” are legal dates mandated by the national regulatory authorities. Oracle may mandate implementation of standards revisions 6-12 months in advance of a country's deadline to support internal development, manufacturing and distribution timelines. Please contact your program's assigned compliance engineer for scheduling details applicable to your product.

2. Use

Since this document is considered the definitive reference source for standard references, other specifications, guidelines, test plans and reference documents shall reference this document rather than copying the content within this document into related documents.

On the date that this document is referenced for the purposes of vendor contracts or product development programs, the contract or program will not be required to meet a subsequent newer release of this document unless required for legal reasons. If specifically required, the Global Market Access – Laws team will issue official notification of a new release of this document and which changes are legally mandated and by when. Each Compliance Engineer would then be expected to notify all of those that need to know on a product by product basis.

3. Agency Standards

The national and international standards are listed below by country

International

These international standards give internationally test procedures and limits that are often adopted by individual national regulators or republished as national standards.

IEC60825-1:2014	Safety of laser products.
IEC60950-1:2005 (2nd Ed) + A1:2009 + A2:2013	International safety standard for information technology equipment {Countries are migrating to use IEC62368-1, but there are still some countries that still use the old IEC60950-1.}
IEC60950-23:2005	Safety of large data storage equipment.
IEC62368-1:2023 (4th Ed)	Safety of audio/video, information and communication technology equipment
IEC62368-1:2018 (3rd Ed)	Safety of audio/video, information and communication technology equipment
IEC62368-1:2014 (2nd Ed)	Safety of audio/video, information and communication technology equipment.
CISPR32:2015 + A1:2019	Emissions for multimedia equipment. This standard superseded CISPR22 (information technology emissions) and CISPR13 (TV emissions).

CISPR35:2016	Immunity for multimedia equipment. This standard superseded CISPR24 (information technology immunity) and CISPR20 (TV immunity).
IEC61000-3-2:2018 + A1:2020	Harmonic current emissions for equipment having rated input current $\leq 16A$
IEC61000-3-3:2013 + A1:2017 + A2:2021	Voltage fluctuations and flicker for equipment having rated input current $\leq 16A$
IEC61000-3-11:2017	Voltage fluctuations and flicker for equipment having rated input current $>16A$ but $\leq 75A$
IEC61000-3-12:2011 + A1:2021	Harmonic current emissions for equipment having rated input current $>16A$ but $\leq 75A$

Australia

These international standards give internationally test procedures and limits that are often adopted by individual national regulators or republished as national standards.

Three choices for emissions: AS/NZS CISPR32 or EN55032 or CISPR32	These standards are undated since Australia uses the latest published revision with a two year transition period before the new revision is mandatory for new approvals. EN standards implementation align with the Official Journal of the European Union (OJEU). Otherwise, products already having a signed Australia DOC must only meet the standards revisions that were mandatory on the date of signature
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Canada

CAN/CSA-C22.2 No.62368-1:19, 3rd Edition	Safety – Equivalent to IEC62368-1:2014 and UL62368-1. {Grandfather clause. Products already approved to CAN/CSA-C22.2 No.60950-1-07, 2nd Edition + A1:2011 + A2:2014 or to CAN/CSA-C22.2 No.62368-1-14 2nd edition do not have to be updated.}
ICES-003 Issue 7 (2020)	Spectrum Management and Telecommunications Policy Interference-Causing Equipment Standard. {Required by 15 October 2021. Unique emissions limits. Until then, Issue 6 (2016) will suffice.}

Eurasian Economic Union (EAEU)

Technical Regulations of the Customs Union **(TR CU) 004/2011** on safety of low voltage equipment.

GOST IEC 60950-1-2014	Safety – Equivalent to IEC60950-1:2005 (2nd Ed) + A1:2009 + A2:2013
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Technical Regulations of the Customs Union **(TR CU) 020/2011** on electromagnetic compatibility of technical equipment.

GOST 30805.22-2013	Emissions – Equivalent to CISPR22:2006.
GOST CISPR 24-2013	Immunity – Equivalent to CISPR24:2010.
GOST 30804.3.2-2013	Harmonics – Equivalent to IEC 61000-3-2:2009.
GOST 30804.3.3-2013	Flicker – Equivalent to IEC 61000-3-3:2008
GOST 30804.3.11-2013	Flicker – Equivalent to IEC 61000-3-11:2000
GOST 30804.3.12-2013	Harmonics – Equivalent to IEC 61000-3-12:2004
GOST R 55266-2012	Telecommunications Network Equipment emissions and immunity – Equivalent to ETSI EN 300 386 v1.5.1 (2010-10)
GOST IEC 62479-2013	Assessment of compliance of low power electronic equipment with the basic restrictions related to human exposure to electromagnetic fields (10MHz to 300 GHz) – Equivalent to IEC 62479:2010.

Technical Regulations of the Customs Union **(TR CU) 037/2016** on Restriction of the use of Hazardous Substances (RoHS) in electrotechnical and radio-electronic products. There are no standards under this technical regulation.

GOST EN 50581-2016	RoHS technical documentation standard – Equivalent to EN 50581:2012.
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European Union (EU)

These standards apply to not only the 26 member countries of the European Union (EU) but also to any other country accepting the CE mark including those of the European Free Trade Association (EFTA) and EU candidate countries. The EFTA includes Iceland, Liechtenstein, Norway and Switzerland. EU candidate countries include Albania, Bosnia & Herzegovina, Georgia, Moldova, Montenegro, North Macedonia, Serbia, Turkey and Ukraine.

EN50566:2017 + A1:2023	“Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body” which includes the Specific Absorption Rate (SAR) test
EN60825-1:2014	Safety of laser products including equipment classification and requirements – Equivalent to IEC60825-1:2014.
EN60825-2:2004+A1:2007+A2:2010	Safety of laser products for optical Fibre Communications Systems (OFCS) – Equivalent to IEC60825-2004+A1:2006+A2:2010
EN62368-1:2014	Safety of audio/video/information/communication equipment. Based on IEC62368-1:2014 (2nd Ed) with a few modifications.

EN55032:2015 + A11:2020	Emissions – Equivalent limits to CISPR32:2012.
EN55035:2017 + A11:2020	Immunity – Equivalent to CISPR35:2016.
EN61000-3-2:2014	Harmonics – Equivalent to IEC61000-3-2:2005 + A1:2008 + A2:2009. Harmonic current emissions standard for equipment having rated input current < 16A per phase.
EN61000-3-3:2013	Flicker – Equivalent to IEC61000-3-3:2008. Voltage fluctuations and flicker standard for equipment having rated input current ≤ 16A per phase.
EN61000-3-11:2000	Flicker – Equivalent to IEC61000-3-11:2000. Voltage fluctuations and flicker standard for equipment having rated input current > 16A and ≤ 75A per phase.
EN61000-3-12:2011	Harmonics – Equivalent to IEC61000-3-12:2011 + IS1:2012. Harmonic currents produced by equipment connected to public low-voltage systems with input current > 16A and ≤ 75A per phase.
ETSI EN 300 386 V1.6.1 (2012-09)	Electromagnetic compatibility and radio spectrum matters (ERM): Telecommunications network equipment: Electromagnetic compatibility (EMC) requirements. {Both ETSI EN 300 386 V2.2.1 (2022-09) and ETSI EN 300 386 V2.1.1 (2016-07) have been published, but the EU has not added either to the EU harmonized standards list. For now DOCs must continue to cite the older ETSI EN 300 386 V1.6.1.}
EN IEC 63000:2018	RoHS technical documentation standard.

Key European Union (EU) directives and regulations for Oracle and its suppliers include but are not limited to those listed below. As the EU does not require declarations of conformity (DOCs) to list all delegated directives and amendments, this guide will not attempt to list these updates to the base directive either. Yet these updates captured in delegated directives and amendments still have the force of law. Both Oracle and our suppliers must comply.

Directive 2009/125/EC	Ecodesign Requirements for Energy-Related Products Directive
Directive 2011/65/EU	Restriction of Hazardous Substances (RoHS) Directive
Directive 2012/19/EU	Waste Electrical & Electronic Equipment (WEEE) Directive
Regulation (EU) 2023/1542	Battery Regulation
Directive 2014/30/EU	Electromagnetic Compatibility (EMC) Directive
Directive 2014/35/EU	Low Voltage Directive
Regulation (EC) No 1907/2006	Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
Regulation 2024/2847	Cyber Resilience Act (CRA) Regulation

India

IS 694:2010	Safety for polyvinyl chloride (PVC) insulated cables/wiring having minimum conductor cross section area 0.5 mm ² and rated voltages up to and including 450VAC (line-to-ground), 750VAC (line-to-line) or 1100VDC
IS 1293:2019	Safety for plugs and socket-outlets of rated voltage up to and including 250 Volts and rated current up to and including 16 Amperes. Equivalent to IEC 60884-1:2002+A1:2006+A2:2013.
IS 9968-1:1988 + A1:1991 (Reaffirmed 2020)	Safety for elastomer insulated cables/wiring having minimum conductor cross section area 1.0 mm ² and rated voltages up to and including 1100VAC or 1500VDC.

IS 13252 (Part 1):2010 + A1:2013 + A2:2015	Safety for information technology equipment – Equivalent to IEC60950-1:2005 + A1:2009 + A2:2013.
IS 16046 (Part 2):2018	Safety for Lithium batteries & cells used in portable equipment – Equivalent to IEC62133-2:2017.
IS/IEC 62368 : Part 1 : 2018	Audio/Video, Information and Communication Technology Equipment Part 1 Safety Requirements based on IEC 62368-1:2018 (3 rd edition).

Indonesia

SNI ISO/IEC CISPR 32 or ISO/IEC CISPR 32	Emissions
SNI ISO/IEC CISPR 35 or ISO/IEC CISPR 35	Immunity
IEC 60940-1 or IEC 62368-1	Safety
IEC 60825	Laser Safety
IEEE 802.3	Ethernet

Japan

VCCI-CISPR 32:2016	Emissions – Technical requirements equivalent to CISPR32:2015.
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Mexico

NOM-001-SCFI-2018	Safety- Standard for Electronic Equipment <i>{typical Oracle HW in scope includes but not limited to: External Power Supplies (EPSU) while Internal PSUs are not in scope}</i>
NOM-019-SCFI-1998	Safety - Standard for Data Processing or ITE products
NOM-196-SCFI-2016	Telecom- Standard for Terminal equipment that connects or interconnects through wired access to a public telecommunications network
NOM-218-SCFI-2016	Telecom- Standard applies to radio communication equipment that has a digital interface at 2 048 kbit/s (also called E1) and 34 368 kbit/s (or E3)
NOM-208-SCFI-2016	Telecom- Standard regulates Bluetooth, WLAN, and other short-range devices operating in the frequency bands 2400-2483.5MHz, 5725-5850MHz, and 902-928MHz.

People's Republic of China (China)

GB4943.1-2022	Safety – Equivalent to IEC62368-1:2018 (3 rd Ed) but includes some China unique requirements. {Required for CCC by the first factory audit after 31 July 2023. Until then, GB4943.1-2011 will suffice.}
GB/T9254.1-2021	Emissions – Equivalent to CISPR32:2015. {Implemented for new CCC certifications starting 1 July 2022, but the mandatory update date has not yet been announced. Best to update to this standard at the same time as the CCC is updated to GB4943.1-2022. Until the yet-to-be-announced deadline, GB/T9254-2008 will suffice.}
GB17625.1-2022	Harmonics – Equivalent to IEC61000-3-2:2020. {Required for CCC by the first factory audit after 1 July 2024. Until then, GB17625.1-2012 will suffice.}
GB31241-2022	Safety of lithium-ion cells and batteries used in portable electronic equipment. This is a merging of requirements and testing from IEC62133-2:2017, IEC60646-8 and IEC60738-1. {Required for all imports of by 1 August 2024. Until then, the old GB31241-2014 will suffice.}

Republic of China (Taiwan)

CNS15598-1:2020 (Chinese year 109)	Safety of audio/video, information and communication technology equipment based on IEC62368-1:2018 (3 rd Ed). {Required by 1 January 2024 for RPC Scheme or by 1 January 2025 for DOC scheme. Until then, the old CNS14336-1:2010 will suffice.}
CNS15663:2013 (Chinese year 102)	RoHS
CNS15936:2016 (Chinese year 105)	Emissions – Equivalent to CISPR32:2015. {Required by 1 January 2024 for RPC Scheme or by 1 January 2025 for DOC scheme. Until then, the old CNS13438:2006 will suffice.}

Republic of Korea (South Korea)

KS C 9832:2019	Emissions – Based on CISPR32:2015 with minor differences like only using 10m measuring distance for 30-1000 MHz emissions {Required for new KC certifications or renewals issued starting 8 May 2021.}
KS C 9835:2019	Immunity – Based on CISPR35:2016 with minor differences {Required for new KC certifications or renewals issued starting 8 May 2021.}
KC62133-2:2020	Safety for secondary (rechargeable) cells, and for batteries made from them, for use in portable application – lithium systems. Equivalent to IEC62133-2:2017+A1:2021 but issued early based on CDV before official publishing of A1:2021. {Mandatory for KC certifications starting 1 August 2021. Earlier KC certifications used KC62133:2018 or KC62133:2015.}
KC62368-1:2021	Safety – equivalent to IEC62368-1:2018 3 rd Edition. {All new KC certifications for in scope products like power supply units must cite this standard starting 1 January 2023. However, products already having KC certifications to the earlier K60950-1:2011 are grandfathered and do not have to be updated.}

Saudi Arabia

Two choices for safety: SASO IEC 62368-1:2020 or IEC62368-1:2018	Safety – Equivalent to IEC62368-1:2018 (3rd edition)
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Thailand

TIS 62133-1-2565 (2022)	Safety for sealed Nickel secondary cells/batteries used in portable applications – Equivalent to IEC62133-1:2017
TIS 62133-2-2565 (2022)	Safety for sealed Lithium secondary cells/batteries used in portable applications – Equivalent to IEC62133-2:2017+A1:2021 {All new TISI certifications must cite this standard. However, the mandatory date for updating existing certifications to the earlier TIS 2217-2548 (2005) equivalent to IEC62133:2002 has not yet been published.}

United Kingdom (UK)

These are the standards for the UKCA mark. Northern Ireland accepts products having either UKCA mark or CE mark.

EN60825-1:2014	Safety of laser products including equipment classification and requirements – Equivalent to IEC60825-1:2014.
EN60825-2:2004+A1:2007+A2:2010	Safety of laser products for optical Fibre Communications Systems (OFCS) – Equivalent to IEC60825-2004+A1:2006+A2:2010
EN62368-1:2014	Safety of audio/video/information/communication equipment. Based on IEC62368-1:2014 (2nd Ed) with a few modifications.
EN55032:2015 + A11:2020	Emissions – Equivalent limits to CISPR32:2012.
EN55035:2017 + A11:2020	Immunity – Equivalent to CISPR35:2016.
EN61000-3-2:2014	Harmonics – Equivalent to IEC61000-3-2:2005 + A1:2008 + A2:2009. Harmonic current emissions standard for equipment having rated input current < 16A per phase.
EN61000-3-3:2013	Flicker – Equivalent to IEC61000-3-3:2008. Voltage fluctuations and flicker standard for equipment having rated input current ≤ 16A per phase.
EN61000-3-11:2000	Flicker – Equivalent to IEC61000-3-11:2000. Voltage fluctuations and flicker standard for equipment having rated input current > 16A and ≤ 75A per phase.
EN61000-3-12:2011	Harmonics – Equivalent to IEC61000-3-12:2011 + IS1:2012. Harmonic currents produced by equipment connected to public low-voltage systems with input current > 16A and ≤ 75A per phase.
ETSI EN 300 386 V1.6.1 (2012-09)	Electromagnetic compatibility and radio spectrum matters (ERM): Telecommunications network equipment: Electromagnetic compatibility (EMC) requirements. {ETSI EN 300 386 V2.1.1 (2016-07) has been released, but has not been added to the EU harmonized standards list. For now DOCs must continue to cite

	the older ETSI EN 300 386 V1.6.1. To reduce how often DOCs must be issued, recommend citing compliance to both revisions.}
EN IEC 63000:2018	RoHS technical documentation standard.

Key UK regulations for Oracle and its suppliers include but are not limited to:

The Batteries and Accumulators (Placing on the Market) Regulations 2008

The Electrical Equipment (Safety) Regulations 2016

The Electromagnetic Compatibility Regulations 2016

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020

The Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The Waste Electrical and Electronic Equipment Regulations 2013

United States of America (USA)

47CFR15 Subpart B	Emissions – U.S. Code of Federal Regulations, Title 47, Part 15, Subpart B, Unintentional Radiators. Uses ANSI C63.4-2014. {FCC has a grandfather clause so products already on the market may continue to use the rules revision that was in effect when the product first was released.}
UL62368-1, Ed.3, 2019-12-13	Safety – Equivalent to IEC62368-1:2014. {Grandfather clause. Already NRTL approved products are grandfathered under the same level standard they were originally approved.}
GR-63-CORE:2013, Issue 5	Network Equipment-Building System (NEBS) Requirements: Physical Protection
GR-1089-CORE:2013, Issue 7	Electromagnetic Compatibility and Electrical Safety – Generic Criteria for Network Telecommunications Equipment

Vietnam

QCVN 118:2018/BTTTT	Emissions – Equivalent to CISPR32:2015 + COR1:2016.
QCVN132:2022/BTTTT	Safety – Equivalent to IEC62368-1:2018 (3 rd Edition)

Appendix A: Acronyms

AS/NZS	Australia / New Zealand
BSMI	Bureau of Standards, Metrology & Inspection (Taiwan)
CFR	Code of Federal Regulations (USA)
CE	French "Conformité Européenne" meaning European conformity
CENELEC	European Committee for Electrotechnical Standardization
CISPR	Comité International Spécial des Perturbations Radioélectriques (English: International Special Committee on Radio Interference)
CSA	Canadian Standards Association
DOC	Declaration of Conformity
DOW	Date of withdrawal of any conflicting National Standard. Effectively, this date becomes the deadline date for migrating to the replacement newer standard revision.
EAEU	Eurasian Economic Union
EMC	ElectroMagnetic Compatibility
ETSI	European Telecommunications Standards Institute
EU	European Union
IEC	International Electrotechnical Commission
ISO	International Standards Organization
NRTL	Nationally Recognized Test Laboratory as identified by the US Occupational Safety and Health Administration (OSHA)
OJ	Official Journal
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RoHS	Restriction of Hazardous Substances
TBA	To Be Announced
UL	Underwriters Laboratories
VCCI	Voluntary Control Council for Interference (Japan)

Appendix B: Change History

Changes under the old document part number 990-1295-01.

Rev.	Date	Section	Brief Description
A	04/10/2009	All	Initial release
B	06/05/2009	3	Added dates for Canada standards and IEC60950-1.
C	07/10/2009	3	Added date for CNS14336 and a 2 nd edition annotation for CSA.
D	09/10/2009	3	Added update to GB9254:2008.
E	09/17/2009	3	Update Russia GOST R 51317.3.3-2008
F	12/14/2009	3	Corrected China standard number for GB4943 and added GB17625.1.
G	03/22/2010	3	Added A11:2009 to EN60950-1:2006 plus new revision EN61000-3-3:2008. Changed from Sun to Oracle.
H	04/30/2010	3	Removed Russia GOST 26329-84 (P.p. 1.2, 1.3.) acoustics standard – withdrawn 2/15/2010. Updated Europe's safety deadline to add amendment 1.
I	10/27/2010	3	Updated EN300386 to v1.5.1, added “CAN” to the designation for Canadian standard, and used proper name “Republic of Korea” for South Korea.
J	11/22/2010	3	Added Harmonics and Flicker standards for above 16A and up to 75A as required for Europe.
K	01/20/2011	3	Added new revision EN55024:2010 and Japan VCCI reference (undated). Removed superseded references to EN60950-1.
L	03/11/2011	3	Corrected a date entry for Amendment 2 in EN61000-3-3.
M	04/25/2011	3	Added the newly released Amendment 12 to EN60950-1 for Europe.
N	05/02/2011	3	Added amendments 1 & 2 to EN61000-3-2:2006 for Europe.
P	07/01/2011	3	Revision O not used. Added CNS14336:2010 to Taiwan.
Q	08/01/2011	3	Corrected the Taiwan standard number to CNS14336-1:2010.
R	10/13/2011	3	EN61000-3-3:2008 became mandatory in Europe starting 1 September 2011, so earlier revisions have been removed.
S	11/03/2011	3	For Europe, added EN55022:2010 and removed older expired revisions. Also updated Australia emissions standards and GR-1089-CORE revision.
T	02/27/2012	3	Updated Canada & USA safety 60950-1 standards to the revision date that includes amendment 1, 2011-12-19 for UL and 2011-12 for CSA.
U	04/19/2012	3	Updated Europe standard to EN61000-3-12:2011. Updated China safety standard to GB4943.1-2011.
V	02/04/2013	3	Added IEC/EN60825-1 and IEC/EN60950-23. Updated revision dates for EN 300 386 for v1.6.1 and eliminated superseded standards now that the effective date arrived.
W	03/21/2013	3	Added the new RoHS standard EN50581 to Europe. Added the India safety standard IS13252.
X	05/28/2013	3	Updated China to GB17625.1-2012 (Harmonics).
Y	01/30/2014	3	Added Europe Directives because these directives need to be listed in Declarations of Conformity. Also updated effective dates of standards.
Z	03/31/2014	3	Added CISPR32/EN55032, recast EMC & Low Voltage Directives, Saudi Arabia and Vietnam. Replaced Russia with Customs Union.
AA	12/11/2014	3	Updated the India safety standard to add Amendment 1. Updated Korea standard revision dates. Added CISPR32 for Australia.
AB	02/27/2015	3	Added IEC62368-1 & EN62368-1. Updated the EN61000-3-2:2014 revision.
AC	07/21/2015	3	Updated standard revision dates for UL in USA and CSA in Canada.
AD	10/20/2015	3	Updated to KN32 & KN35 for South Korea and added CNS15663 for Taiwan.
AE	12/01/2015	3	Added AC:2013 to EN55032 for Europe.
AF	05/24/2016	3	Removed old Europe directives now that recast directives are mandatory. Mandate KN32 & KN35 for South Korea.
AG	06/17/2016	3	Updated Canada to ICES-003 Issue 6. Added amendment 2 for India. Eliminated mention of old revisions that are no longer acceptable.
AH	09/26/2016	3	Added CISPR35:2016 to International Standards section and ETSI EN 300 386 (2016-07) to the Europe section.
AI	10/13/2016	3	Updated the revision for EN60825-1:2014 for Europe and EN55032:2012 option for Australia / New Zealand.
AJ	12/01/2016	3	Changed “Customs Union” heading to “Eurasian Economic Union (EAEU)” and updated its standards revisions.
AK	12/12/2016	3	Updated revision for EN55032:2015.
AL	03/22/2017	3	Updated the deadlines for RoHS for Taiwan.
AM	04/24/2017	3	Eliminated EN55022 since it is no longer acceptable. Use EN55032. Added Chinese year for Taiwan standards.
AN	08/17/2017	3	Updated standards listed for Australia, China, Eurasian Economic Union, Japan and USA.
AO	09/15/2017	3	Updated the revision for IEC60825-1, CISPR32, and the international equivalency for GOST IEC 60950-1.
AP	01/04/2018	3	Added IEC61000-3-2, IEC61000-3-3, IEC61000-3-11 and IEC61000-3-12 to International. Added EN55035 to Europe.
AQ	01/10/2018	3	Updated the South Korea safety standard to the revision 2011.
AR	01/26/2018	3	Updated the transition date for implementing EN60825-1:2014 in Europe.
AS	03/23/2018	3	Updated deadline dates for Europe standards due to delayed publishing of harmonized standards list in EU Official Journal. Added appendix 1 for acronyms.
AT	06/07/2018	3	Fixed the equivalent standard for KN32:2013 to be CISPR32:2012.
AU	08/09/2018	3	For Australia, we removed the AS/NZS CISPR22 option and clarified transition dates. Updated US and Canada to 62368-1 standards.
AV	10/04/2018	3	Removed past transition dates and clarified which countries have a “grandfather clause” allowing use of revisions mandatory on the date of product release or certification.
AW	11/07/2018	3	Added the REACH Regulation for Europe.
AX	05/08/2019	3	Added IS1646(Part 1) for India. Removed standard revision dates for Australia.
AY	06/11/2019	3	Added QCVN 118:2018 for Vietnam and KC62133 for South Korea.
AZ	09/19/2019	3	Only EN60825-1:2014 is harmonized (not earlier revisions) for the EU. Also, only QCVN 118:2018/BTTTT can be used now for Vietnam.
BA	11/01/2019	3	Updated the mandatory date for UL62368-1 2 nd Edition in the US section.
BB	01/27/2020	3	Added India power plug & socket related safety standard IS1293 and update to IS16046(Part 2) for lithium batteries/cells.
BC	02/21/2020	3	Updated India IS1293 to the new 2019 revision.
BD	05/08/2020	3	Added the Eco Design Directive and EN60825-2 for the European Union and the TR037/2016 for the EAEU.
BE	07/02/2020	3	Reported the 90 day extension of transition deadline for IS1293, IS16046(Part 1) and IS16046(Part 2) for India.
BF	07/13/2020	3	Added details for 3 rd edition of International IEC62368-1, Taiwan CNS15598-1, and India IS/IEC 62368:Part 1.
BG	08/12/2020	3	Updated EN62368-1 to include A11.
BH	11/4/2020	3	For the European Union, updated the revision to EN55032:2015+A11:2020 plus the deadline implementation date of 4 May 2022.

<i>Rev.</i>	<i>Date</i>	<i>Section</i>	<i>Brief Description</i>
BI	02/19/2021	3	Added UK specific standards and regulations after the Brexit (no longer a part of the EU). Updated the EN 300 386 status for both EU and UK.
BJ	03/17/2021	3	Added safety standard SASO IEC 62368-1:2020 to Saudi Arabia. Removed transition information for which the transition already occurred. Transitioned South Korea to KS C 9832 and KS C 9835. Transitioned the EU RoHS standard to EN IEC 63000.
BK	03/22/2021	3	Fixed the equivalent CISPR standard for KS C 9832:2019. South Korea has not incorporated Amendment 1 yet.

Changes under the latest document part number PROC-10085.

<i>Rev.</i>	<i>Date</i>	<i>Section</i>	<i>Brief Description</i>
02	04/16/2021	All	Initial release under new part number PROC-10085 and using a new document template. Updated Canada to ICES-003 Issue 7. Updated EU to EN55035+A11 with known mandatory date.
03	07/26/2021	3	Updated the Telcordia GR standards revisions for USA. Added a reference to the older EN50581:2012 which is still acceptable until 18 Nov 2021. Added discussion about A11:2020 for EN55035 for the EU section.
04	09/19/2021	3	Updated the Saudi Arabia deadline for SASO IEC62368-1:2020 to its newly announced delayed date of 01/01/2023. Updated the international standards revisions (IEC and CISPR). Noted that the newer Korea standards are required for any new KC approvals or renewals. Updated the EU deadline for EN55035.
05	10/28/2021	3	Updated the implementation date for IS1293:2019 in India based on an extension announced 10/25/2021.
06	01/21/2022	All	Updated Oracle confidentiality statement. No content change.
07	02/25/2022	3	Added Mexico. Clarified that EU Directives are “with amendments”. EU does not require every delegated directive or amendment be separately listed on a DOC, so this document will not list all of these ... yet the current EU law must be complied with including delegated directives and amendments. Fixed date for UL62368-1 to 13 December 2019. Updated the Taiwan standards.
08	04/25/2022	3	Added KC62368-1 to South Korea.
09	08/19/2022	3	Updated China to GB/T 9254.1-2021 and added coming GB 4943.1-2022.
10	02/07/2023	3	Corrected the update description for rev 09. Added IS694 and IS9968-1 for India. Added ETSI EN 300 386 V2.2.1 which is not yet harmonized for the European Union.
11	04/25/2023	3	Updated South Korea to KC62133-2:2020.
12	12/06/2023	3	Updated China to GB 17625.1-2022 and added Li-ion battery/cell safety standard GB31241-2022. Added GOST IEC 62479 and GOST EN 50581 for Eurasian Economic Union (EAEU). Removed references to now out-dated and no-longer-accepted standards.
13	03/15/2024	3	Updated European Union to Battery Regulation (EU) 2023/1542.
14	11/19/2024	3	Added Thailand and Indonesia. Added safety standard to Vietnam that became mandatory on 1 January 2024.
15	01/31/2025	3	Added TISI 62133-1:2565 for Thailand. Added EN50566 & CRA for Europe. Added IEC62368-1:2023. Removed CISPR22 & CISPR24.

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