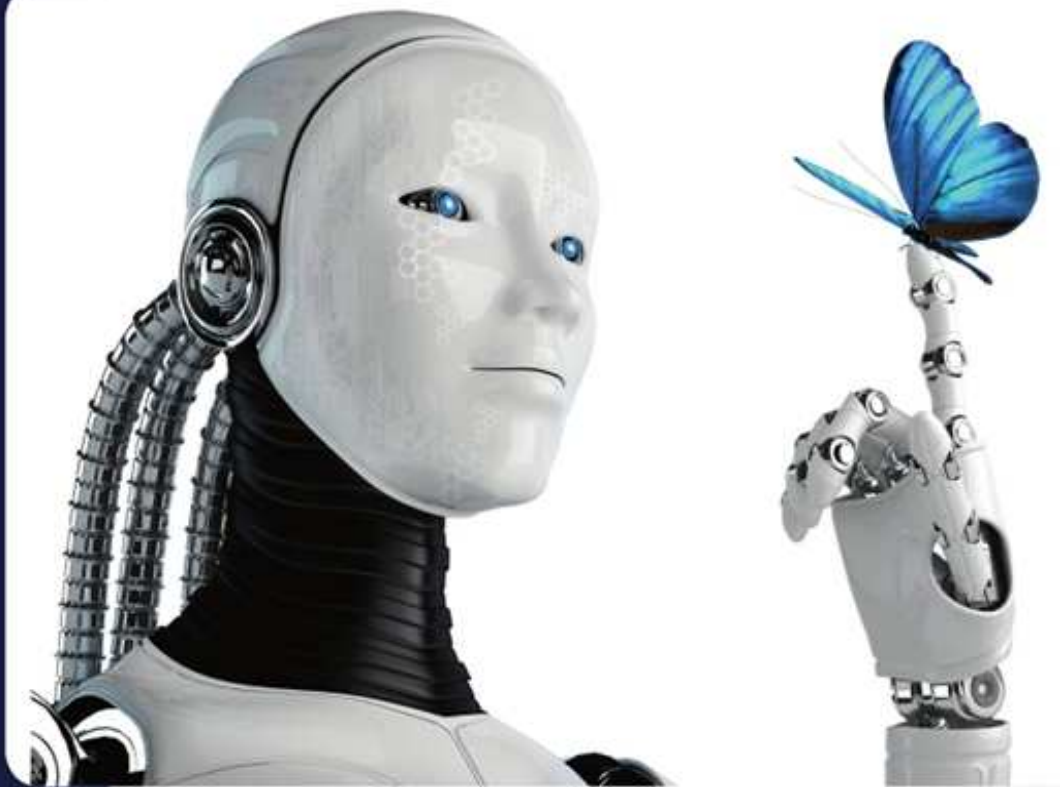


Newsletter September, 2018



ICR



Hot Issue

1. IEC 62368-1 Seminar

2. Announcement of the obligation to mark facts...

3. ISO 19011:2018 Guidelines

**4. Electromagnetic Compatibility Test for Railway
application**





IEC 62368-1 Seminar

For the standard IEC/EN 62368-1 to replace Audio/Video, Information Technology and Communications Technology Equipment,

VDE lecturers were invited by the ICR for a seminar on August 22, 2018 and completed with a lot of participation.

SEMINAR

IEC 62368-1

Heiko May
Product Safety Engineer

2018-08-13

VDE INSTITUT



IEC 62368-1 Seminar

IEC 62368-1 ed.3 has been voted on and will be issued in favor of standard issuance by most countries.

108/707/RVD

RESULT OF VOTING ON FDIS (RVD)

PROJECT NUMBER:

IEC 62368-1 ED3

DATE OF CIRCULATION:

2018-07-13

REFERENCE NUMBER OF THE FDIS:

108/701/FDIS



IEC 62368-1 Seminar

Voting Result on 108/701/FDIS				
Circulation Date: 2018-05-25			Closing Date: 2018-07-06	
IEC 62368-1 ED3: Audio/video, information and communication technology equipment - Part 1: Safety requirements				
Country	Status	Vote	Comments	Received
Australia	P	Y	-	2018-07-03
Austria	P	Y	Y	2018-06-21
Belarus	O	Y	-	2018-07-06
Belgium	P	Y	-	2018-07-02
Canada	P	Y	-	2018-07-04
China	P	Y	-	2018-07-04
Croatia	O			
Czech Republic	O			
Denmark	P	Y	Y	2018-06-27
Finland	P	Y	-	2018-06-20
France	P	Y	Y	2018-07-04
Germany	P	Y	Y	2018-07-06
Greece	-	-	-	2018-07-06
Hungary	O	Y	-	2018-06-07
India	P	A	-	2018-07-05
Iran	O	A	-	2018-07-04
Ireland	P	Y	-	2018-05-28
Israel	P	A	-	2018-07-05
Italy	P	Y	-	2018-07-04
Japan	P	Y	Y	2018-07-02
Korea, Republic of	P	Y	-	2018-07-02
Mexico	P	Y	-	2018-07-06
Netherlands	P	Y	-	2018-07-04
New Zealand	O			
Norway	P	Y	-	2018-07-05
Philippines, Rep. of the	P	Y	-	2018-07-06
Poland	P	Y	-	2018-07-04
Portugal	P	Y	-	2018-07-06
Qatar	-	-	-	2018-07-01
Romania	P	Y	-	2018-06-07
Russian Federation	O	Y	Y	2018-06-04
Slovakia	O			
Slovenia	P	Y	-	2018-06-27
South Africa	P	Y	-	2018-07-06
Spain	P	A	-	2018-07-06
Sweden	P	Y	-	2018-06-25
Switzerland	P	A	-	2018-06-18
Thailand	O			
Turkey	P	Y	-	2018-07-04
Ukraine	O			
United Kingdom	P	Y	Y	2018-07-06
United States of America	P	Y	Y	2018-07-06
Czech Republic	O			
Croatia	O			
New Zealand	O			
Slovakia	O			
Thailand	O			
Ukraine	O			



IEC 62368-1 Seminar

The ICR has a **TC108 specialist** and continues to act as an expert so you can get the latest specifications in advance and guide the customer.

Customers can further reduce costs by combining ICR and **62368-1** services ;

- wireless test
- Radio/EMC test
- Environmental testing





IEC 62368-1 Seminar

Examples (abridged) of equipment covered within the scope of IEC 62368-1 (Annex A).

Generic product type	Specific example of generic type
Banking equipment	Monetary processing machines, incl. ATMs
Consumer electronic equipment (including professional audio, video and musical instrument equipment)	Receivers and amplifiers for sound and/or vision, electronic musical instruments, music tuners and the like for use with electronic or non-electronic musical instruments, audio and/or video educational equipment, video projectors, video cameras and video monitors, video games, juke boxes, optical disc players, tape and optical disc recorders, antenna signal converters and amplifiers, antenna positioners, Citizen's Band equipment, cable head-end receivers, multimedia equipment, electronic flash equipment
Data and text processing machines and associated equipment	Data processing equipment, data storage equipment, personal computers, plotters, printers, scanners, text processing equipment, visual display units
Data network equipment	Bridges, data circuit terminating equipment, data terminal equipment, routers
Electrical and electronic retail equipment	Cash registers, point of sale terminals including associated electronic scales
Electrical and electronic office machines	Calculators, copying machines, document shredding machines, motor-operated files, pencil sharpeners, staplers
Other information technology equipment	Photoprinting equipment, public information terminals, multimedia equipment
Postage equipment	Mail processing machines, postage machines
Telecommunication network infrastructure equipment	Multiplexers, network powering equipment, network terminating equipment, radio base stations, repeaters, transmission equipment, telecommunication switching equipment
Telecommunication terminal equipment	Facsimile equipment, key telephone systems, modems, PABXs, pagers, telephone answering machines, telephone sets (wired and wireless)

Announcement of the obligation to mark facts that have been assessed for conformity



Broadcasting and communication equipment materials according to the revision and implementation of the relevant notice ('17.12.5). In case of manufacturing, sales, or importation, the conformity assessment shall be indicated. Export and import and sales are possible.

Related law : Article 58-2 (6) of the Radio Law and Article 77-5 of the Enforcement Decree of the Radio Waves Act, Article 23 "Annex 5" (Implementation on December 5, 2017) of the "Notification on Conformity Assessment of Broadcasting and Communication Equipment, etc."

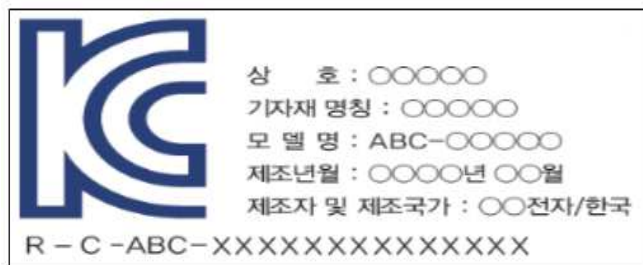
Announcement of the obligation to mark facts that have been assessed for conformity



When to display

- Domestic Manufacturing Products: Before shipment
- Imported goods: Before customs clearance

Mark method



Customs, such as airports, check whether they have been **assessed for conformity assessment compliance prior** to customs clearance under **the Customs Law**. If you violate it, there may be problems with imports and exports.



Announcement of the obligation to mark facts that have been assessed for conformity

※ Violation of KC Certification Marking Obligation :

Order improvement, correction, transfer, or disposal according to the law of propagation Disposition of fines (Article 90 (5) 3 of the Radio Waves Act, Article 117-2 (2) of the Enforcement Decree of the Radio Waves Act)

※ Article 226 of the Customs Act :

When importing and exporting, goods which require permission, approval, indication or other conditions as prescribed by laws and ordinances shall certify that the customs manager has the permission, approval, indication or other conditions.

※ Contact Information :

- Radio test certification center post-management section(031-644-7561~5), suitability Certification Department (031-644-7531~5)
- RRA Information and Communication Conformity Assessment

Division (061-338-4711~3)



ISO 19011:2018 Guidelines for auditing management systems

**Additional guidance for auditors planning and
conducting audits.**

Applying audit methods

An audit can be performed using a range of audit methods. An explanation of commonly used audit methods can be found in this annex. The audit methods chosen for an audit depend on the defined audit objectives, scope and criteria, as well as duration and location.

Available auditor competence and any uncertainty arising from the application of audit methods should also be considered.



ISO 19011:2018 Guidelines for auditing management systems

Applying a variety and combination of different audit methods can optimize the efficiency and effectiveness of the audit process and its outcome.

Performance of an audit involves an interaction among individuals within the management system being audited and the technology used to conduct the audit.

If an audit involves the use of an audit team with multiple members, both on-site and remote methods may be used simultaneously.



ISO 19011:2018

Guidelines for auditing management systems

Extent of involvement between the auditor and the auditee	Location of the auditor	
	On-site	Remote
Human interaction	Conducting interviews Completing checklists and questionnaires with auditee participation Conducting document review audit auditee participation Sampling	Via interactive communication means: <ul style="list-style-type: none"> - Conducting interviews; - Observing work performed with Remote guide; - Completing checklist and questionnaires; - Conducting document review with auditee participation.
No human interaction	Conducting document review (e.g. records, data analysis) Observing work performed Conducting on-site visit Completing checklists Sampling (e.g. products)	Conducting document review (e.g. records, data analysis) Observing work performed via surveillance means, considering social and statutory and regulatory requirements Analysing data

On-site audit activities are performed at the location of the auditee. Remote audit activities are performed at any place other than the location of the auditee, regardless of the distance.

Interactive audit activities involve interaction between the auditee's personnel and the audit team. Non-interactive audit activities involve no human interaction with individuals representing the auditee but do involve interaction with equipment, facilities and documentation.

Electromagnetic Compatibility Test for Railway application



In general, railways are **exposed to** many **electromagnetic waves**, including the use of radio waves by related employees or the use of mobile phones and DMB by passengers.

This is an environment that may affect the equipment and may **cause malfunction** of the equipment due to frequency interference.

In order to prevent such situation, it is **required to verify the electromagnetic waves** related to the equipment used in the railway.



Electromagnetic Compatibility Test for Railway application



ICR is a **KOLAS accredited testing organization** providing test services for railway equipment

- **KN 50** Emission Test method of Electric railway equipment
- **KN 51** Immunity test method of Electric railway equipment
- **IEC 62236-1:2018(EN 50121-1:2006/AC:2008)**

Railway applications - Electromagnetic compatibility
- Part 1: General

- **IEC 62236-2:2018(EN 50121-2:2006/AC:2008)**

Railway applications - Electromagnetic compatibility
- Part 2: Emission of the whole railway system to the outside world

Electromagnetic Compatibility Test for Railway application



- **IEC 62236-3-1:2018(EN 50121-3-1:2017)**

Railway applications - Electromagnetic compatibility
- Part 3-1: Rolling stock - Train and complete vehicle

- **IEC 62236-3-2:2018(EN 50121-3-2:2017)**

Railway applications - Electromagnetic compatibility
- Part 3-2: Rolling stock – Apparatus

- **IEC 62236-4:2018(EN 50121-4:2016)**

Railway applications - Electromagnetic compatibility
- Part 4: Emission and immunity of the signalling and telecommunications apparatus

- **IEC 62236-5:2018(EN 50121-5:2017)**

Railway applications - Electromagnetic compatibility
- Part 3-2: Rolling stock - Apparatus



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