

## New EN55022 Requirements Slated to Go Into Effect

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Manufacturers of Information Technology Equipment (ITE) intended for sale in the European Union should take note of some important changes that are slated to go into effect with regard to their EMC testing requirements under EN55022. The 1994 version of the standard will be withdrawn as of August 1, 2007 and the 1998 version is scheduled to be withdrawn on October 1, 2009. Any products that will be on the market after those withdrawal dates will need to be tested to demonstrate compliance with the new 2006 version of the standard. This article describes these changes in some detail.

Conformance to the European Union's CE marking requirements for ITE products involves compliance with both EMC emissions and immunity standards. The emissions standards are regulated by EN55022 and the immunity standards by EN55024. (Common examples of ITE products are desktop and laptop computers, data storage devices, networking equipment, etc.) EN 55022:1998 introduced requirements for measuring conducted emissions from telecommunications ports. Telecommunication ports include Local Area Network interfaces (Ethernet, 10/100 Base-T, 1000 Base-T) and Wide Area Network interfaces (telephone, DSL, POTS, T1, E1, Synchronous serial and DS3).

The 1994 version of the EN55022 standard did not have requirements for conducted emissions on telecommunication ports, and with the 1994 version "Date of Withdrawal" approaching many products will require retesting or, at minimum, changes to their EU Declaration of Conformity in order to remain in compliance with the CE marking requirements. Any manufacturer who has applied the 1994 version of EN 55022 in determining the conformity of their product will have to change their EU Declaration of Conformity to reference a newer version of EN 55022, either the 1998 version or the 2006 version, by August 1, 2007.

Any products with telecommunications ports that were tested to the 1994 version of the EN55022 standard will require additional testing (conducted emissions for all telecommunication port types) to meet the requirements of either the 1998 version or 2006 version of EN 55022. It is recommended that testing be performed and declarations be updated to the 2006 version since the 1998 version is slated for withdrawal. Manufacturers who have already applied the 1998 version of EN 55022 can postpone the decision to test and reissue their Declaration of Conformity until October 1, 2009, when the 1998 version of the standard is slated for withdrawal.

The difference between the 1998 version and 2006 version is the test method used to measure conducted emissions on the telecommunication port. The conducted emissions limits between 1998 and 2006 are the same. Assuming that a manufacturer originally applied the 1994 version of EN 55022 to their product, then no additional testing is required if the product does not include telecommunication ports, but that manufacturer will still need to update their EU Declaration of Conformity to reference the 1998 or 2006 version of the standard.

A typical declaration of conformity for equipment that is in the scope of EN 55022 has the following elements:

## EU Declaration of Conformity

Equipment: *{Product description and model}*

*{Manufacturer or his authorized representative}* declares under its sole responsibility that the equipment specified above conforms to the referenced EU Directives and Harmonized Standards.

Directive	Harmonized Standards
EMC Directive 89/336/EEC <sup>1</sup>	EN 55022:2006EN 61000-3-2:2000+Amd2:2005 EN 61000-3-3:1995+Amd1:2001+Amd2:2005 EN 55024:1998+Amd1:2001+Amd2:2003
Low Voltage Directive 2006/95/EC	EN 60950-1:2001+Amd11:2004

*{The name and address of the manufacturer or his authorized representative established within the EU, identification of the signatory who has been empowered to enter into commitments on behalf of the manufacturer or his authorized representative and the last two digits of the year in which the CE marking was affixed.}*

For more information about how this change affects your products or for a price quote for services required to update your product to the current standards, please contact us at [info@elliottlabs.com](mailto:info@elliottlabs.com) or call at 408-245-7800.

<sup>1</sup> After July 20, 2007, 2004/108/EC may be used instead of 89/336/EC for most products. After July 20, 2009, 2004/108/EC must be used as 89/336/EC is repealed.

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