

Electro Magnetic Compatibility

The new EMC Directive, 2004/108/EC, comes into force on 20 July 2007 - repealing former Directive 89/336/EEC from the very same time.

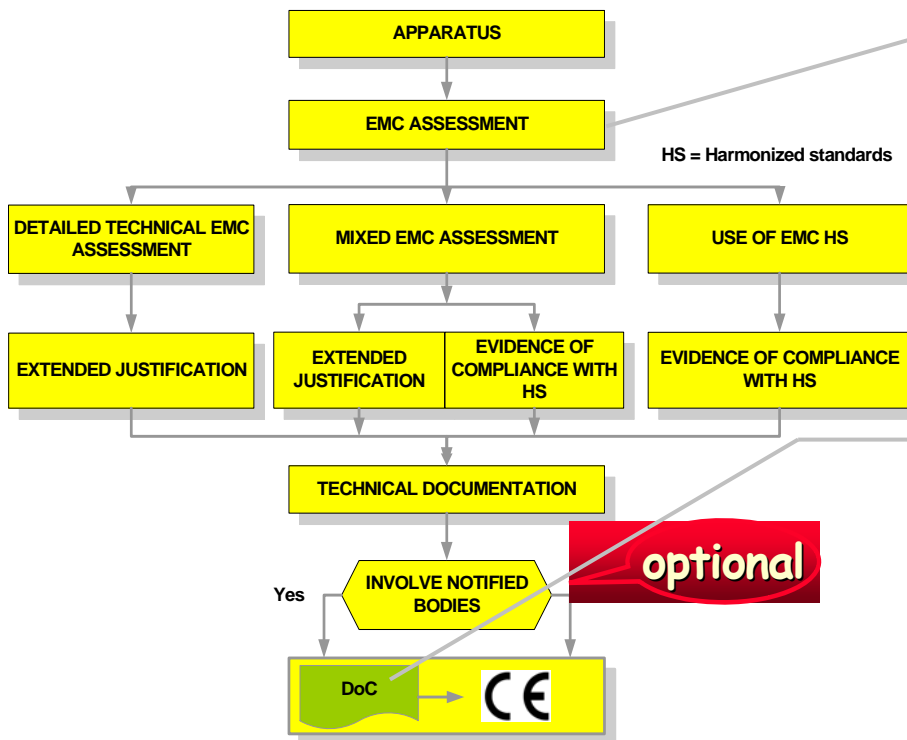
The new EMC Directive applies to a vast range of equipment broadly encompassing all electrical and electronic appliances, systems and installations. There are, however, exclusions for some equipment being covered by other more specific Directives, e.g. R&TTE-, Aeronautical-, Marine-, Radio Equipment used by radio amateurs etc.

The Directive sets out a transitional period of 2 years for **Apparatus** being placed on the market before 20 July 2007. In this context apparatus shall mean any finished product or a single functional unit for end-users, including components or sub-assemblies intended to be incorporated into such an apparatus or mobile installations. Such apparatus can continue to be placed on the market up to 20 July 2009.

The Directive makes a clear distinction between the requirements and assessment procedures for apparatus and for fixed installations respectively. **Fixed installations** (i.e. permanently installations at a predefined location) as a whole has to comply with the Directive when put into service on or after 20 July 2007. There are no requirements to CE marking or Declaration of Conformity for fixed installations - technical documentation must be provided.

The Directive provides a clarification of definitions, on the usage of harmonized standards (HS), on the conformity assessment procedures for apparatus and a particular regime for fixed installations. The Directive defines essential protection requirements to equipment (i.e. apparatus and/or installations) where the main objective is to regulate the compatibility of equipment regarding EMC, i.e. spurious emission generated by the equipment and the level of immunity to electromagnetic disturbance when operated in its intended environment.

Conformity assessment of an apparatus



Manufacturers are obliged to perform **EMC assessment** based on relevant phenomena and draw up technical documentation providing evidence of compliance with the Directive. To ensure that all relevant parameters have been assessed, an opinion of a Notified Body is favourable.

Compliance shall be attested by an **EC Declaration of Conformity (DoC)** representing information as required prior to the **CE marking**.

CE marketed apparatus proved non-compliant will be redrawn from the market by the authorities due to the Directive Safeguard clause.