Another EMC resource from EMC Standards

EMC Directive Compliance and items intended to be incorporated for use within them
EMC Directive compliance for fixed installations, and for items of equipment intended to be incorporated within them

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Cherry Clough Consultants confidential training material

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Introduction

- There has always been confusion about how the original EMC Directive (89/336/EEC) applied to custom-made (bespoke) equipment, and to systems and installations...
  - dispelling this confusion was a main aim of the EC’s 1997 Guidelines on the EMC Directive

- Properly dealing with this confusion was a major change in 2004/108/EC (2nd Edition EMCD)...
  - and that new text is almost completely unchanged in 2014/30/EU (3rd Edition EMCD)


replaced 2004/108/EC on 20 April 2016
The 3rd Edition of the EMCD: 2014/30/EU

Every individual item of manufacture made available on the EU Market on/after 20 April 2016 must declare compliance to this, regardless of how long the products have been supplied in the EU!

The UK’s Law implementing 2014/30/EU

Statutory Instrument 2016 No. 1091

Came into force in December 2016
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Changes in 2014/30/EU (1)

- A lot of new definitions added
- Text now includes:
  - “placed on the market”
  - “made available on the market”
  - “first taken into service”
- New Chapter: “Obligations of Economic Operators” covers all the requirements of 768/2008
- New Chapter: “Notification of Conformity Assessment Bodies” covers all the requirements of 765/2008
- New Article: “Procedure for dealing with apparatus presenting a risk at national level”, plus the Technical Documentation must now include a Risk Assessment...
  - these are for non-safety-related EMI risks, only

Changes in 2014/30/EU (2)

- In Annex I, the old “Protection Requirements” are now called “General Requirements”...
- Added to the list of exemptions...
  - “(e) custom built evaluation kits destined for professionals to be used solely at research and development facilities for such purposes”
- There is some rewording of the text, presumably to improve its legal status...
  - but without any actual change in meaning
    (as far as I can determine or have heard about)
Some products which used to declare conformity to EMCD and LVD will have to declare to the RED (Radio Equipment Directive) instead

- Under the old R&TTE directive (1999/5/EC), if a manufacturer incorporated a radio module compliant with 1999/5/EC and installed it according to its instructions, the overall product could be declared in conformity with the EMCD and LVD…
  - BUT THIS IS NOT THE CASE NOW! Such products must now declare compliance to the RED (2014/53/EU) only – not EMCD and LVD – and will need extra EMC testing

- BUT this only affects products (apparatus) – not fixed installations as defined in the EMCD, which will continue to be covered by the EMCD and LVD no matter how many radio functions their equipment uses

Changes in 2014/30/EU (3)

- Note that 2014/30/EU adds certain marking and labelling requirements…
  - concerning indelibly marking the manufacturers name, postal address, and the serial number(s) of the equipment on items of equipment
  - and it adds requirements for Agents, Distributors and Importers, who now share the risks of non-compliance with the product manufacturers

- But these are unlikely to affect most ‘fixed installations’…
  - and I will provide the details on request