

**Agenda Item:** 7.7

**Source:** Lucent Technologies

**Title:** Proposed Normative references for S4.13 basestation EMC specification

**Document for:** Information

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Document R4-99-037, presented to Meeting #2 of WG4, contains proposed text for S4.13. This document contains references to European standards (ENs) which are used in the GSM EMC specification for infrastructure. However, for 3GPP, international standards should be used.

The standards listed below are proposed as Normative references for R4.13. These contain no technical differences from the EN specifications listed in square brackets (which were in document R4-99-037).

If references to these EN specifications are required in Europe, these will be added by ETSI (probably in a Normative Annex) during the process of conversion of the 3GPP specification to a European Standard.

- [1] CISPR Publication No.22 "Limits and methods of measurement of radio disturbance characteristics of information technology equipment".
- [2] CISPR Publication No. 16-1: "Specification for radio disturbance and immunity measuring apparatus and methods".
- [3] IEC 61000-4-3: "Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques Section 3: Radiated, Radio-frequency electro-magnetic field immunity test". [EN 61000-4-3]
- [4] IEC 61000-4-2: "Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques Section 2: Electrostatic discharge immunity test + Basic EMC Publication". [EN 61000-4-2]
- [5] IEC 61000-4-4: "Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques Section 4: Electrical fast transient/burst immunity test + Basic EMC Publication". [EN 61000-4-4]
- [6] IEC 61000-4-6: "Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques Section 6: Immunity to conducted disturbances induced by radio-frequency fields". [EN 61000-4-6]
- [7] IEC 61000-4-11: "Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques Section 11: Voltage dips, short interruptions and voltage variations. immunity tests". [EN 61000-4-11]
- [8] IEC 61000-4-5: "Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques Section 5: Surge immunity tests". [EN 61000-4-5]
- [9] IEC 61000-3-2: "Electromagnetic compatibility (EMC) - Part 3: Limits section : Limits for harmonic current emissions (equipment input current less than or equal to 16A per phase". [EN 61000-3-2]

[10]

IEC 61000-3-3: "Electromagnetic compatibility (EMC) - Part 3: Limits Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current less than or equal to 16A ". [EN 61000-3-3]