

**SLOVENSKI STANDARD**  
**SIST EN 300 386 V1.3.2:2004**

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**Elektromagnetna združljivost (EMC) in zadeve v zvezi z radijskim spektrom (ERM) -  
Oprema za telekomunikacijsko omrežje - Zahteve za elektromagnetno združljivost  
(EMC)**

Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements

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# ETSI EN 300 386 V1.3.2 (2003-05)

*Candidate Harmonized European Standard (Telecommunications series)*

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
Telecommunication network equipment;  
ElectroMagnetic Compatibility (EMC) requirements**

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***ETSI***

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
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## Foreword

This Candidate Harmonized European Standard (Telecommunications series) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [43] (as amended) laying down a procedure for the provision of information in the field of technical standards and regulations.

The present document is intended to become a Harmonized Standard, the reference of which will be published in the Official Journal of the European Communities referencing the Council Directive on the approximation of the laws of the Member States relating to electromagnetic compatibility ("the EMC Directive") (89/336/EEC [41] as amended).

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## 1 Scope

The present document covers the EMC requirements for equipment intended to be used within a telecommunications network (as defined in clause 3). Examples of such equipment are:

- **Switching equipment.** Such equipment includes:
    - local telephone exchanges;
    - remote switching concentrators;
    - international switches;
    - telex switches;
    - network packet switches.
  - General purpose equipment, which is used as a part of a switching system, may be covered by the scope of other standards. For such equipment, if those other standards fully cover all the requirements of the present document, no further requirements are necessary. Switching equipment can also contain transmission functions, and this has to be recognized during testing.
  - Non-radio transmission equipment and ancillary equipment. Such equipment includes:
    - multiplexers;
    - line equipment and repeaters, e.g. equipment for:
 

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      - Synchronous Digital Hierarchy (SDH);
      - Plesiochronous Digital Hierarchy (PDH);
      - Asynchronous Transfer Mode (ATM);

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- such as:
- Digital Cross Connect systems;
  - network terminations;
  - transmission equipment used in the access network like XDSL.
- **Power supply equipment.** Such equipment includes:
    - central power plant;
    - end of suite power supplies;
    - uninterruptible power supplies;
    - stabilized AC power supplies;
    - and other dedicated telecommunication network power supplies;
- but excludes equipment which is uniquely associated with or integrated in other equipment.

- **Supervisory equipment.** Such equipment includes:
  - network management equipment;
  - operator access maintenance equipment;
  - traffic measurement systems;
  - line test units;
  - functional test units.

The function of *supervision* may either be performed by independent equipment or form part of other telecommunication equipment. If the function of supervision forms part of a telecommunication equipment, the performance may be evaluated simultaneously with other functions (such as switching and transmission) during EMC testing.

The environmental classification used in the present document refers to TR 101 651 [42].

The requirements of the present document have been selected to ensure an adequate level of immunity for the apparatus covered by the scope of the present document. The levels do not, however, cover extreme cases which may occur at any location but with a low probability of occurrence. In special cases, situations may arise where the levels of disturbance may exceed the immunity test levels specified in the present document. In these instances, special mitigation measures may have to be employed.

Equipment for cabled distribution systems intended only for television and sound signals as defined in EN 50083-2 [3] and optical amplifiers as defined in ITU-T Recommendations G.661 [23] and G.662 [24] are outside the scope of the present document.

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## 2 References ([standards.iteh.ai](https://standards.iteh.ai/catalog/standards/sist-en-300-386-v1-3-2-2004))

The following documents contain provisions [which, through reference in this text, constitute provisions of the present document.](https://standards.iteh.ai/catalog/standards/sist-en-300-386-v1-3-2-2004)  
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- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

- [1] CISPR 16-1: "Specification for radio disturbance and immunity measuring apparatus and methods; Part 1: Radio disturbance and immunity measuring apparatus".
- [2] EN 50082-1 (1997): "Electromagnetic compatibility - Generic immunity standard - Part 1: Residential, commercial and light industry".
- [3] EN 50083-2 (1995): "Cable networks for television signals, sound signals and interactive services - Part 2: Electromagnetic compatibility for equipment".
- [4] EN 55022 (1998): "Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement".
- [5] EN 61000-3-2 (2000): "Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)".
- [6] EN 61000-3-3 (1995): "Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection".

- [7] EN 61000-4-2: "Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test".
- [8] EN 61000-4-3: "Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test".
- [9] EN 61000-4-4: "Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test".
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- [11] EN 61000-4-6: "Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields".
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- [16] ETSI ETS 300 132-1 (1996) "Equipment Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 1: Operated by alternating current (ac) derived from direct current (dc) sources". **(standards.iteh.ai)**
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- [18] ETSI ETS 300 166 (1993): "Transmission and Multiplexing (TM); Physical and electrical characteristics of hierarchical digital interfaces for equipment using the 2 048 kbit/s - based plesiochronous or synchronous digital hierarchies".
- [19] ETSI ETS 300 232 (1993): "Transmission and Multiplexing (TM); Optical interfaces for equipments and systems relating to the Synchronous Digital Hierarchy [ITU-T Recommendation G.957 (1993), modified]".
- [20] IEC 60050-161: "International Electrotechnical Vocabulary. Chapter 161: Electromagnetic compatibility".
- [21] IEC 60050-714: "International Electrotechnical Vocabulary - Chapter 714: Switching and signalling in telecommunications".
- [22] ISO/IEC 8802-3 (1996): "Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications".
- [23] ITU-T Recommendation G.661 (1998): "Definition and test methods for the relevant generic parameters of optical amplifier devices and subsystems".
- [24] ITU-T Recommendation G.662 (1998): "Generic characteristics of optical amplifier devices and subsystems".
- [25] ITU-T Recommendation G.712 (1996): "Transmission performance characteristics of pulse code modulation channels".
- [26] ITU-T Recommendation G.812 (1998): "Timing requirements of slave clocks suitable for use as node clocks in synchronization networks".

- [27] ITU-T Recommendation G.813 (1996): "Timing characteristics of SDH equipment slave clocks (SEC)".
- [28] ITU-T Recommendation G.958 (1994): "Digital line systems based on the synchronous digital hierarchy for use on optical fibre cables".
- [29] ITU-T Recommendation G.961 (1993): "Digital transmission system on metallic local lines for ISDN basic rate access".
- [30] ETSI EN 300 127: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Radiated emission testing of physically large telecommunication systems".
- [31] ITU-T Recommendation O.41 (1994): "Psophometer for use on telephone-type circuits".
- [32] ITU-T Recommendation O.150 (1996): "General requirements for instrumentation for performance measurements on digital transmission equipment".
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- [36] ITU-T Recommendation V.24 (2000): "List of definitions for interchange circuits between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE)".
- [37] **iTeh STANDARD PREVIEW**  
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- [39] ~~ITU-T Recommendation X.24 (1988): "List of definitions for interchange circuits between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) on public data networks".~~
- [40] ITU-T Recommendation X.25 (1996): "Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit".
- [41] Council Directive 89/336/EEC of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility.
- [42] ETSI TR 101 651 (V1.1.1): "Electromagnetic compatibility and radio spectrum matters (ERM); Classification of the electromagnetic environment conditions for equipment in telecommunication networks".
- [43] Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations.
- [44] ITU-T Recommendation G.996.1 (1999): "Test procedures for digital subscriber line (DSL) transceivers".
- [45] ETSI TS 101 135 (V1.5.3): "Transmission and Multiplexing (TM); High bit-rate Digital Subscriber Line (HDSL) transmission systems on metallic local lines; HDSL core specification and applications for combined ISDN-BA and 2 048 kbit/s transmission".
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[47] ETSI TS 101 270-1 (V1.2.1): "Transmission and Multiplexing (TM); Access transmission systems on metallic access cables; Very high speed Digital Subscriber Line (VDSL); Part 1: Functional requirements".

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply. The definitions taken from the IEC 60050-161 [20] have reference in parentheses.

**AC secondary interface:** output port of an AC power supply

**AC secondary voltage:** output of the AC power supply at the AC secondary interface

NOTE: The AC secondary voltage may be either:

- a stabilized AC supply derived from a DC primary supply (e.g. where the power supply is an inverter); or
- derived from the AC primary supply (e.g. a stabilized power supply used where the quality of the primary supply is not sufficient to feed telecommunication equipment).

**burst (161-02-07):** sequence of a limited number of distinct pulses or an oscillation of limited duration

**connection:** temporary association of transmission channels or telecommunication circuits, switching or other functional units set up to provide for the transfer of information between two or more points in a telecommunication network (IEC 60050-714) **iTeh STANDARD PREVIEW (standards.iteh.ai)**

**continuous disturbance (161-02-11):** electromagnetic disturbance the effects of which on a particular device or equipment cannot be resolved into a succession of distinct effects

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**DC secondary interface:** output port of a DC power supply

**DC secondary voltage:** output of the DC power supply at the DC secondary interface

The DC secondary voltage may be derived from the AC primary supply with or without a buffer battery.

**duration (of a voltage change) (161-08-03):** interval of time for the voltage to increase or decrease from the initial value to the final value

**duration (of a pulse):** interval of time between the instants at which the instantaneous value of a pulse reaches 50 % of the pulse magnitude for the first and last time

**enclosure port:** physical boundary of the Equipment Under Test (EUT) through which electromagnetic fields may emanate or on which they may impinge

**environment, environmental conditions:** electromagnetic conditions external to the equipment, to which it is subjected at a certain time

The environmental conditions comprise a combination of single environmental parameters and their severity.

**environmental parameters:** present one or more properties of the electromagnetic environment

**immunity (to a disturbance) (161-01-20):** ability of a device, equipment or system to perform without degradation in the presence of an electromagnetic disturbance

**impulsive disturbance (161-02-09):** electromagnetic disturbance which, when incident on a particular device or equipment, manifests itself as a succession of distinct pulses or transients

**interface "A":** terminals at which a power supply is connected to the telecommunications equipment

**multimedia network equipment:** multimedia network equipment containing broadcast and telecommunication functions