



SLOVENSKI STANDARD
oSIST prEN 300 386 V3.0.0:2025
01-oktober-2025

Oprema za telekomunikacijska omrežja - Harmonizirani standard za zahteve glede elektromagnetne združljivosti (EMC)

Telecommunication network equipment - Harmonised Standard for ElectroMagnetic Compatibility (EMC) requirements

iTeh Standards
(<https://standards.iteh.ai>)

Ta slovenski standard je istoveten z: ETSI EN 300 386 V3.0.0 (2025-08)

[oSIST prEN 300 386 V3.0.0:2025](#)

<https://standards.iteh.ai/catalog/standards/sist/73358f8c-6c8b-4d2b-9010-4b2861f20048/osist-pren-300-386-v3-0-0-2025>

ICS:

33.050.01	Telekomunikacijska terminalska oprema na splošno	Telecommunication terminal equipment in general
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

oSIST prEN 300 386 V3.0.0:2025 [en](#)

Draft ETSI EN 300 386 V.3.0.0 (2025-08)



**Telecommunication network equipment;
Harmonised Standard for ElectroMagnetic Compatibility (EMC)
(<https://standards.iteh.ai/requirements>)
Document Preview**

[oSIST prEN 300 386 V3.0.0:2025](https://standards.iteh.ai/catalog/standards/sist/73358f8c-6c8b-4d2b-9010-4b2861f20048/osist-pren-300-386-v3-0-0-2025)

<https://standards.iteh.ai/catalog/standards/sist/73358f8c-6c8b-4d2b-9010-4b2861f20048/osist-pren-300-386-v3-0-0-2025>

Reference

REN/ERM-EMC-422

Keywords

EMC, harmonised standard, network, testing

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 - APE 7112B
 Association à but non lucratif enregistrée à la
 Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from the
[ETSI Search & Browse Standards](#) application.

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format on [ETSI deliver](#) repository.

Users should be aware that the present document may be revised or have its status changed,
 this information is available in the [Milestones listing](#).

If you find errors in the present document, please send your comments to
 the relevant service listed under [Committee Support Staff](#).

If you find a security vulnerability in the present document, please report it through our
[Coordinated Vulnerability Disclosure \(CVD\)](#) program.

<https://standards.iteh.ai/catalog/standards/draft/733588c6-8b-4d2b-9010-4b386120048/osist-pren-300-386-v3-0-0-2025>

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.
 In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.
 The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2025.
 All rights reserved.

Contents

Intellectual Property Rights	7
Foreword.....	7
Modal verbs terminology.....	8
1 Scope	9
2 References	10
2.1 Normative references	10
2.2 Informative references.....	12
3 Definition of terms, symbols and abbreviations.....	15
3.1 Terms.....	15
3.2 Symbols.....	17
3.3 Abbreviations	18
4 Installation environment.....	19
5 Immunity: test methods	19
5.0 General requirements	19
5.1 Electrostatic discharge.....	19
5.2 Electrical fast transients/burst.....	19
5.3 Surges.....	20
5.3.1 Signal line ports	20
5.3.2 AC power ports.....	20
5.4 Immunity to continuous conducted signals	20
5.4.1 Radio frequency (> 150 kHz)	20
5.4.1.1 AC power port.....	20
5.4.1.2 DC power port.....	20
5.4.1.3 Signal line port	20
5.5 Immunity to radiated electromagnetic fields	21
5.6 Voltage dips and short interruptions: AC power port.....	21
6 Emission: test methods	21
6.0 General	21
6.1 AC power port.....	21
6.2 DC power port.....	21
6.3 Wired network Ports.....	22
6.4 Antenna Port.....	22
6.5 Radiated emission.....	22
7 Test levels and limits.....	22
7.0 General requirements	22
7.1 Emission	22
7.1.1 Enclosure port, Radiated electromagnetic field emissions.....	22
7.1.2 AC ports.....	23
7.1.2.1 Conducted emissions.....	23
7.1.3 DC ports, Conducted emissions	23
7.1.4 Wired network ports, Conducted emissions	23
7.2 Immunity	23
7.2.0 General.....	23
7.2.1 Equipment operating in telecommunication centres	24
7.2.1.1 Telecommunication centres equipment, immunity requirement of enclosure port	24
7.2.1.2 Telecommunication centres equipment, immunity requirement of ports for outdoor signal lines and antenna ports	25
7.2.1.3 Telecommunication centres equipment, immunity requirements of ports for indoor signal lines	25
7.2.1.4 Telecommunication centres equipment, immunity requirements of AC power ports	26
7.2.1.5 Telecommunication centres equipment, immunity requirements of DC power ports	27
7.2.2 Equipment operating in locations other than telecommunication centres.....	27
7.2.2.1 Other than telecommunication centres equipment, immunity requirements of enclosure port	27

7.2.2.2	Other than telecommunication centres equipment, immunity requirements of ports for outdoor signal lines and antenna ports.....	28
7.2.2.3	Other than telecommunication centres equipment, immunity requirements of ports for indoor signal lines.....	29
7.2.2.4	Other than telecommunication centres equipment, immunity requirements of AC power ports	30
7.2.2.5	Other than telecommunication centres equipment, immunity requirements of DC power ports	30
8	General test configuration	31
9	General operational conditions during testing.....	31
9.0	General requirements	31
9.1	Equipment configuration.....	31
9.2	Operation of multimedia network equipment.....	32
10	General immunity conditions	32
10.1	General performance criteria.....	32
11	Switching equipment specific requirements.....	33
11.1	Test configuration.....	33
11.2	Operational conditions	34
11.2.0	General.....	34
11.2.1	Emission	34
11.2.2	Immunity	34
11.3	Specific immunity performance criteria	34
11.3.0	General.....	34
11.3.1	Digital port performance criteria	34
11.3.1.1	Performance criterion A (continuous phenomena).....	34
11.3.1.2	Performance criterion B (transient phenomena).....	34
11.3.1.3	Performance criterion C (interruptions)	35
11.3.2	Analogue port performance criteria	35
11.3.2.1	Performance criterion A (continuous phenomena).....	35
11.3.2.2	Performance criterion B (transient phenomena).....	35
11.3.2.3	Performance criterion C (interruptions)	35
12	Transmission equipment specific requirements	35
12.1	Test configuration.....	35
12.2	Operational conditions	36
12.2.0	General.....	36
12.2.1	Emission	36
12.2.2	Immunity	36
12.3	Specific immunity performance criteria	36
12.3.1	Digital signal ports.....	36
12.3.1.0	General.....	36
12.3.1.1	Performance criterion A (continuous phenomena).....	37
12.3.1.2	Performance criterion B (transient phenomena).....	37
12.3.1.3	Performance criterion C (interruptions)	37
12.3.2	Analogue voice frequency signal ports	37
12.3.2.0	General.....	37
12.3.2.1	Performance criterion A (continuous phenomena).....	37
12.3.2.2	Performance criterion B (transient phenomena).....	37
12.3.3	SDH and PDH interfaces	38
12.3.3.1	Tributary and aggregate interfaces	38
12.3.4	ISDN interfaces	38
12.3.4.1	Primary rate access ISDN interfaces	38
12.3.4.2	Network termination NT1 for ISDN "U" interfaces.....	38
12.3.4.3	Basic access ISDN interfaces	38
12.3.5	Analogue interfaces	38
12.3.5.1	Trunk interfaces and leased line interfaces	38
12.3.5.2	Subscriber interfaces	38
12.3.6	V.10, V.11, V.24, V.28, V.36, X.24 and similar V.- and X.- series interfaces	38
12.3.7	Ethernet and packet-data interfaces	38
12.3.7.0	General.....	38
12.3.7.1	Performance criterion A (continuous phenomena).....	38
12.3.7.2	Performance criterion B (transient phenomena).....	39

12.3.8	Service and maintenance interfaces	39
12.3.9	Synchronization interfaces.....	39
12.3.9.0	General	39
12.3.9.1	Performance criterion A (continuous phenomena).....	39
12.3.9.2	Performance criterion B (transient phenomena).....	39
12.3.10	Remote alarm interfaces	39
12.3.10.0	General.....	39
12.3.10.1	Performance criterion A (continuous phenomena).....	39
12.3.10.2	Performance criterion B (transient phenomena).....	39
12.4	Digital Subscriber Line (DSL) Access Systems	39
12.4.1	Test configuration	39
12.4.2	Operational conditions.....	40
12.4.3	Immunity	41
12.4.4	Specific Immunity performance criteria	41
12.4.4.0	General	41
12.4.4.1	Performance Criterion A (continuous phenomena).....	41
12.4.4.2	Performance Criterion B (transient phenomena).....	41
12.4.4.3	Performance Criterion C (interruptions)	41
13	Power supply equipment specific conditions	42
13.0	Applicability.....	42
13.1	Test configuration.....	42
13.2	Operational conditions	43
13.2.1	Emission	43
13.2.2	Immunity	43
13.3	Specific immunity performance criteria	43
13.3.0	General.....	43
13.3.1	Alternating current secondary interface	43
13.3.1.1	Performance criterion A (continuous phenomena).....	43
13.3.1.2	Performance criterion B (transient phenomena).....	43
13.3.2	Direct current secondary interface	44
13.3.2.1	Performance criterion A (continuous phenomena).....	44
13.3.2.2	Performance criterion B (transient phenomena).....	44
13.3.3	Control/signal interface.....	44
13.3.4	Tertiary supply interface	44
14	Supervisory equipment specific conditions.....	45
14.1	Test configuration.....	45
14.2	Operational conditions	45
14.3	Specific immunity performance criteria	46
14.3.1	Performance criterion A (continuous phenomena)	46
14.3.2	Performance criterion B (transient phenomena)	46
Annex A (informative):	Relationship between the present document and the essential requirements of Directives 2014/30/EU and 2014/53/EU	47
A.1	Relationship between the present document and the essential requirements of Directive 2014/30/EU	47
A.2	Relationship between the present document and the essential requirements of Directive 2014/53/EU	49
Annex B (informative):	Evaluation of test results	51
Annex C (informative):	Guidance on EMC performance requirements and methods of measurement for RF ports (also covered by EN 50083-2) of multimedia network equipment	53
Annex D (normative):	Requirements of radio functions	54
D.1	Applicability.....	54
D.2	Exclusion bands.....	54
D.2.1	General	54