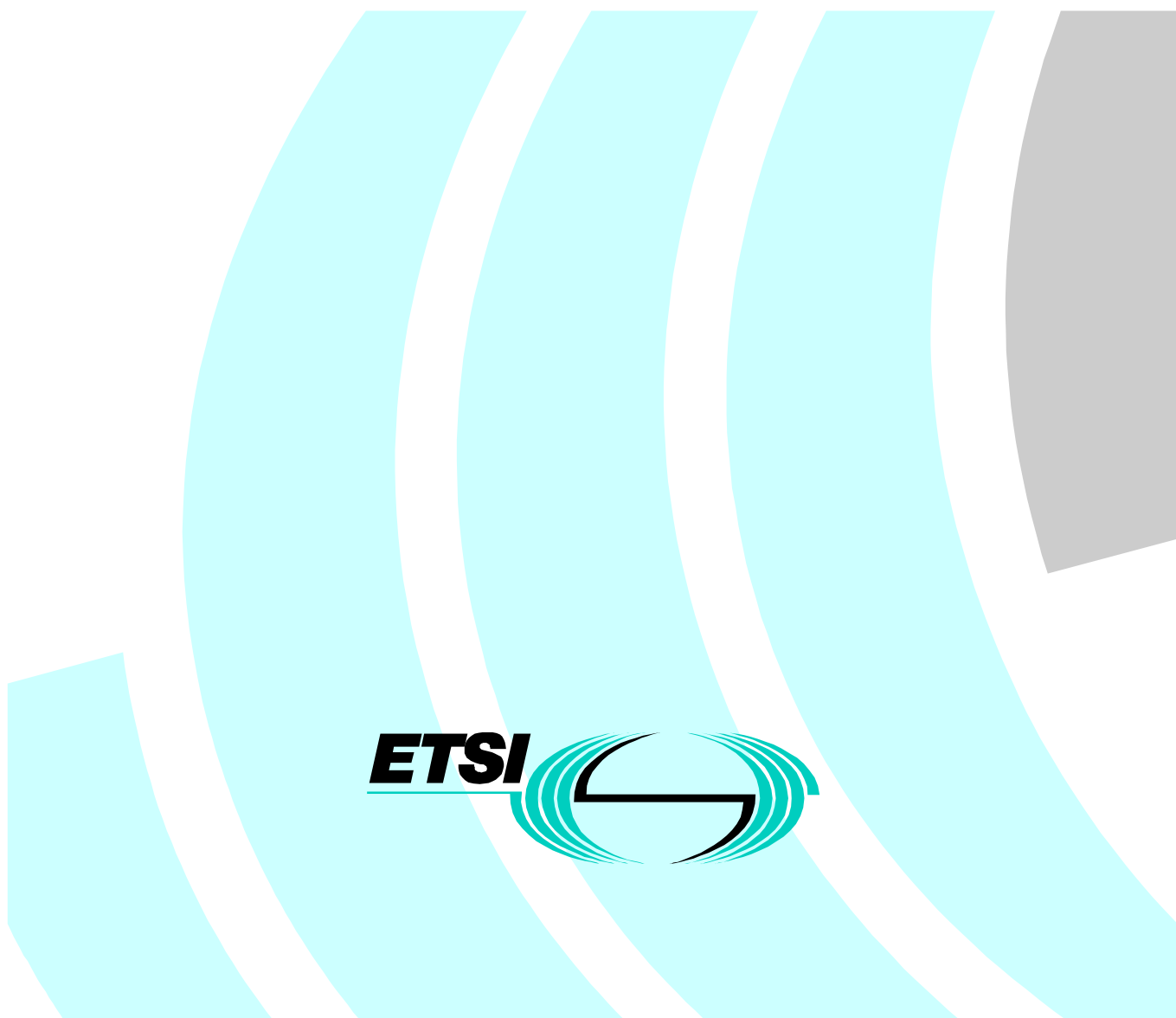


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Technical Specification

Access and Terminals (AT); Overvoltage protection requirements within TBRs



Reference

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Access and Terminals (AT).

1 Scope

The present document will replace ITAAB Advisory Notes no. 114 and 119.

The present document gives guidance on overvoltage requirements in the following specifications:

- TBR 003 [1] including TBR 003/A1 [2];
- TBR 004 [3] including TBR 004/A1 [4];
- TBR 012 [5] including TBR 012/A1 [6];
- TBR 013 [7];
- TBR 014 [8] including TBR 014/A1 [9];
- TBR 024 [10];
- TBR 025 [11];
- TBR 033 [12];
- TBR 034 [13].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- 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.

- [1] ETSI TBR 003 (1995): "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access".
- [2] ETSI TBR 003/A1 (1997): "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access".
- [3] ETSI TBR 004 (1995): "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary access".
- [4] ETSI TBR 004/A1 (1997): "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary access".
- [5] ETSI TBR 012 (1993): "Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U) Attachment requirements for terminal equipment interface".
- [6] ETSI TBR 012/A1 (1996): "Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U) Attachment requirements for terminal equipment interface".
- [7] ETSI TBR 013 (1996): "Business Telecommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Attachment requirements for terminal equipment interface".
- [8] ETSI TBR 014 (1994): "Business Telecommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface".

- [9] ETSI TBR 014/A1 (1996): "Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface".
- [10] ETSI TBR 024 (1997): "Business TeleCommunications (BTC); 34 Mbit/s digital unstructured and structured leased lines (D34U and D34S); Attachment requirements for terminal equipment interface".
- [11] ETSI TBR 025 (1997): "Business TeleCommunications (BTC); 140 Mbit/s digital unstructured and structured leased lines (D140U and D140S); Attachment requirements for terminal equipment interface".
- [12] ETSI TBR 033 (1997): "Integrated Services Digital Network (ISDN); Attachment requirements for packet mode terminal equipment to connect to an ISDN using ISDN basic access".
- [13] ETSI TBR 034 (1997): "Integrated Services Digital Network (ISDN); Attachment requirements for packet mode terminal equipment to connect to an ISDN using ISDN primary rate access".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the definitions given in the TBR standards listed in clause 2 apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in the TBR standards listed in clause 2 apply.

4 Overvoltage Protection

4.1 Issue under consideration

The following statements summarise the treatment of overvoltage in the various standards describing the attachment requirements for terminal to digital services:

- TBR 003 clause 8 [1] and TBR 033 clause 8 [12] specify overvoltage protection requirements based upon ETS 300 047-3;
- TBR 004 clause 8 [3], TBR 012 clause 5.4 [5], TBR 013 clause 4.4 [7], TBR 014 clause 5.4 [8] and TBR 034 clause 8 [13] specify overvoltage protection requirements based upon ETS 300 046-3;
- TBR 024 clause 4.4 [10] and TBR 025 clause 4.4 [11] state that there are no overvoltage protection requirements, but requirements on a 75 Ω interface are under study;
- ETS 300 046 and ETS 300 047 have been withdrawn by ETSI on the basis they are covered by other safety or EMC standards;
- although the specific test cases of ETS 300 046/47 are not reproduced in other standards, the overvoltage protection requirements are covered by safety standards (EN 60950) and EMC basic standards (EN 61000-4 series);
- references to ETS 300 046/47 in ONP standards have been removed;
- CTRs are no longer in force.

4.2 Resolution

When utilising the TBRs as listed in the scope, the following factors should be taken into consideration:

- The text of TBR 003 clause 8 [1], TBR 004 clause 8 [3], TBR 012 clause 5.4 [5], TBR 013 clause 4.4 [7], TBR 014 clause 5.4 [8], TBR 033 clause 8 [12] and TBR 034 clause 8 [13], shall be replaced by:

"Overvoltage protection is outside of the scope of this TBR."

- In TBR 024 clause 4.4 [10] and TBR 025 clause 4.4 [11] the note shall be deleted.

Annex A (informative): Bibliography

- ETSI ETS 300 046: "Integrated Services Digital Network (ISDN); Primary rate access - safety and protection".
- ETSI ETS 300 047: "Integrated Services Digital Network (ISDN); Basic access - safety and protection".
- EN 60950: "Safety of information technology equipment".
- EN 61000-4 series of EMC basic standards: "Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques".

History

Document history		
V1.1.1	August 2001	Publication