



BSI Standards Publication

Information technology – Implementation and operation of customer premises cabling Part 2-1: Planning and installation – Identifiers within administration systems

National foreword

This Published Document is the UK implementation of ISO/IEC/TR 14763-2-1:2011.

The UK participation in its preparation was entrusted to Technical Committee TCT/7, Telecommunications - Installation requirements.

A list of organizations represented on this committee can be obtained on request to its secretary.

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ISBN 978 0 580 71061 2

ICS 33.180.10; 35.110; 35.200

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 November 2011.

Amendments issued since publication

Date	Text affected
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ISO/IEC/TR 14763-2-1

Edition 1.0 2011-10

TECHNICAL REPORT



**Information technology – Implementation and operation of customer premises cabling –
Part 2-1: Planning and installation – Identifiers within administration systems**



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland
Email: inmail@iec.ch
Web: www.iec.ch

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

PRICE CODE

M

ICS 35.200

ISBN 978-2-88912-770-2

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INFORMATION TECHNOLOGY – IMPLEMENTATION AND OPERATION OF CUSTOMER PREMISES CABLING –

Part 2-1: Planning and installation – Identifiers within administration systems

FOREWORD

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IEC 14763-2-1, which is a technical report, has been prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

The list of all currently available parts of the ISO/IEC 14763 series, under the general title *Information technology – Implementation and operation of customer premises cabling*, can be found on the IEC web site.

This Technical Report has been approved by vote of the member bodies, and the voting results may be obtained from the address given on the second title page.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

IMPORTANT – The “colour inside” logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.

INFORMATION TECHNOLOGY – IMPLEMENTATION AND OPERATION OF CUSTOMER PREMISES CABLING –

Part 2-1: Planning and installation – Identifiers within administration systems

1 Scope

This part of ISO/IEC 14763 contains requirements and recommendations for identification of cabling infrastructure elements to support ISO/IEC 14763-2 and equivalent standards. The symbols and object codes specified in this Technical Report are primarily based on IEC 81346-1 and IEC 81346-2.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 14763-2, *Information technology – Implementation and operation of customer premises cabling – Part 2: Planning and installation*

ISO 4157 (all parts), *Construction drawings – Designation systems*

ISO 4157-1, *Construction drawings – Designation systems – Part 1: Buildings and parts of buildings*

3 Terms, definitions, abbreviations and conventions

3.1 Terms and definitions

For the purposes of this document the terms and definitions of ISO/IEC 14763-2 apply.

3.2 Abbreviations

For the purposes of this document the abbreviations of ISO/IEC 14763-2 apply.

3.3 Conventions and special symbols

Square brackets indicate optional fields. The square brackets are not part of the identifier. Characters in italics are variables. With the exception of the square brackets, all other characters that are not in italics are used in the identifier, as shown.

For example, the telecommunications space identifier has the format:

$$[[+c]+b]+[f]s$$

Thus, depending on the need to include the campus identifier (*c*), building identifier (*b*), or floor (*f*) identifier the identifier may have the format of either

$+c+b+fs, +b+fs, +fs, +c+b+s, +c+s, +b+s, \text{ or } +s$

where

s is the space identifier.

Note that the brackets for the campus identifier $+c$ are nested within the brackets for the building identifier $+b$. Thus, the campus identifier $+c$ is only included if the building identifier $+b$ is also included.

The plus sign “+” is part of the identifier and specifies that the next portion of the identifier is the location aspect of an object.

The equal sign “=” is also used to specify a function aspect of an object (for example “=XO” for telecommunications outlet).

The period “.” character separates the portion of the identifier for the space and the portion of the identifier for the cabinet or frame.

The colon “:” is used as a prefix to port identifiers.

The underscore “_” character separates the vertical and horizontal coordinates of a closure in a cabinet, frame, or wall section. In a cable identifier it is also used between the first and last port, pair, or fibre numbers.

The forward slash “/” is used between the identifiers of the two ends of a horizontal cable, backbone cable, or telecommunications pathway.

The back slash “\” is used between the identifiers of the two ends of a patch cord or jumper.

Additional information, such as the coordinates of a maintenance hole, conduit number within a duct bank, or subduct number within a conduit, is enclosed in parenthesis.

4 Requirements

4.1 Premises identifiers

4.1.1 Site or campus

4.1.1.1 General

Campus or site identifiers shall use the following format:

c one or more alpha-numeric characters identifying a campus or site.

Campus and site identifiers shall be unique within a telecommunications administration system.

If a site or campus shall be identified, and no other scheme is otherwise employed by the organization, the designation should be based on a recognised code system, for example the IATA airport codes:

+LHR2 (for site 2 within the region served by LHR airport)

If no such code system exists or is applicable, the site or campus should use the following designation system:

$+ [N][Ra]Ce$

The fields are defined in the following subclauses.

Examples of identifiers for a campus (site 2) in San Francisco (area code 415) in the United States (County Code 1) are:

+N1R415C2 or +R415C2 or +N1C2 or +C2

4.1.1.2 Nation

If the format +[N/][Ra]Ce is used for campus/site identifiers, the country *Ni* shall be designated as follows:

N letter N

i numeric characters consisting of the international dialling code for the nation.

Examples:

+N44 (for UK)

+N47 (for Norway)

4.1.1.3 Region

If the format +[N/][Ra]Ce is used for campus/site identifiers, the region *Ra* should be designated as follows:

R letter R

a numeric characters consisting of the area code or code.

NOTE There is a risk that area codes in certain countries are prone to change as telecommunications need increase.

Examples:

+R415 (The region with the dialling code 415 within a defined country)

+R231 (The region with the dialling code 231)

4.1.1.4 Campus number

If the format +[N/][Ra]Ce is used for campus/site identifiers, the campus *Ce* should be designated as follows:

Ce is the campus or site identifier, with

C letter C

e numeric characters consisting of the campus or site number that is unique within a given domain (i.e., region or country).

4.1.2 Building

Building identifiers shall use the following format:

[+c]+b

where the fields are defined as follows:

- c* optional field one or more alpha-numeric characters identifying a campus or site;
- b* one or more alpha-numeric characters that uniquely identify the building on the campus/site (if the campus field is used), or within the organization if no campus/site identifier is used.

Examples:

- +LHR2+B5 (the 5th building on the +LHR2 campus)
- +HQ (a building named HQ that is not on a campus)
- +NAR2 (a building with the unique name NAR2, it may be on the same campus or region as a building named NAR1, but the campus id is omitted since the building name is unique within the administration system)

If buildings on a site or campus need to be designated, the rules of ISO 4157-1 should be applied.

If ISO 4157-1 is not applicable, it is recommended that the building identification scheme described below be used:

+*[N][Ra]**[Ce]*B*k***

Ni, *Ra*, and *Ce* are as defined in 4.1.1. *Bk* is defined as follows:

- B* letter B
- k* numeric characters consisting of the building number.

NOTE This is an alternative building identifier scheme that includes both the site/campus identifier as part of the building identifier.

Examples:

- +N44C20B4 (the 4th building on campus N44C20)
- +B5 (building 5 in an administration system with no nation or region identifiers)

4.2 Space identifiers

4.2.1 Indoor telecommunications space

Indoor telecommunications space identifiers shall have the format:

[*[+c]*+*b*]*[f]*s

where the fields are defined as follows:

[+c]+*b* are optional and defined in 4.1.2.