ISO/IEC 14763-2

Edition 1.0 2015-09

INTERNATIONAL STANDARD

AMENDMENT 1

Information technology – Implementation and operation of customer premises cabling –
Part 2: Planning and installation

ISO/IEC 14763-2-2012-02/AMD1:2015-09(en)

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FOREWORD

Amendment 1 to International Standard ISO/IEC 14763-2 has been prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

This International Standard 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.

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3 Definitions and abbreviations

3.1 Terms and definitions

Add, at the end of the existing list, after 3.1.63, the following new terms and definitions:

3.1.64
automated infrastructure management system
AIM system
integrated hardware and software which automatically detects the insertion or removal of cords and documents the cabling infrastructure including connected equipment enabling management of the infrastructure and data exchange with other systems

3.1.65
discoverable equipment
equipment with a network address

Note 1 to entry: Discoverable equipment could be treated as non-discoverable equipment per end user choice.

3.2 Abbreviations

Insert in the list of abbreviations, after "AC", the following new abbreviation:

AIM   automated infrastructure management

Insert in the list of abbreviations, after "LV", the following new abbreviation:

MAC   move, add, change

Table 14 – Minimum requirements of operational administration systems

Replace, in the 9th row, "Operational complexity" *by* "Operational complexity level".

Replace, in the 10th row, "(see Note 2)" *by* "(see Notes 2 and 3)".

Replace, in the 11th row, "(see Note 2)" *by* "(see Note 3)".

Replace, in NOTE 2, the last sentence of the first paragraph, by the following new paragraph and make this NOTE 3:

NOTE 3   Automated records include the data from automated infrastructure management (AIM) systems that detect connection/disconnection of cords and the presence of discoverable equipment connected to the network. Requirements and recommendations for specifying and operating AIM systems are provided in Annex H.

Delete, in NOTE 2, the existing 2ⁿᵈ and 3ʳᵈ paragraphs.

Table 22 – Recommendations of operational administration systems

Replace, in the 3rd row, "Operational complexity" *by* "Operational complexity level".

Replace, in the NOTE, the last sentence of the first paragraph, by the following new paragraph:

Automated records include the data from AIM systems that detect connection/disconnection of cords and the presence of discoverable equipment connected to the network. Requirements and recommendations for specifying and operating AIM systems are provided in Annex H.

Delete, in the NOTE, the existing 2ⁿᵈ paragraph.

Insert, after the existing Annex G, the following new Annex H:

Annex H
(normative)

Automated infrastructure management (AIM) systems

H.1   Overview

Clause 9 refers to "enhanced" administration systems which automatically record both cord connections and discoverable equipment using the data produced by AIM systems. AIM systems should be considered when it is important to provide a common framework within which

a) planners are able to specify their detailed requirements,

b) operational efficiency and accuracy of the management information provided can be improved.

To support these objectives, this annex defines the core functions required for such systems (see H.3.1) and also describes other auxiliary features that AIM systems may incorporate (see H.3.2).

H.2   Specifying AIM systems

The AIM system shall meet the requirements defined in H.3.1 and may include additional features as required by H.3.2, noting the usage and operational requirements of Clause H.4 and recommendations of Clause H.5 respectively.

H.3   Functions

H.3.1   Core functions of AIM systems

H.3.1.1   System requirements

NOTE   The following requirements are subject to revision within ISO/IEC 18598[1].

An AIM system shall be able to

a) automatically detect connectivity between AIM-enabled panel ports (i.e. ports able to automatically detect the insertion or removal of a cord and process that event as part of an automated infrastructure management system),

b) automatically detect connectivity between AIM-enabled panel ports and other equipment (with AIM-enabled ports) or document and/or infer connectivity between AIM-enabled panel ports and other equipment (without AIM-enabled ports),

c) monitor the connections and disconnections of a) and b).

H.3.1.2   Functional requirements

Once configured, an AIM system shall be able to

a) accommodate the chosen identification scheme (see Clause 9.2) for the items to be documented within the AIM software,

b) record the connections between elements within the cabling infrastructure,

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1   Under consideration.

c) automatically detect, document and monitor the presence of discoverable equipment connected to the network and

1) the configuration of managed network distribution equipment (i.e. discoverable electronic equipment that provides connectivity and supports data exchange between end-devices and which uses communications protocols such as the Simple Network Management Protocol (SNMP) to exchange management information),

2) the network-related information of end devices,

d) automatically update records when any monitored connections are modified,

e) manually document asset information for equipment without a network address,

f) document the physical location of the electronic equipment that provides connectivity and supports data exchange between end-devices and which is connected to the network

g) document and/or infer connectivity between non-AIM enabled ports and other equipment,

h) document the presence and physical location of AIM hardware.

i) identify and track the physical location of end devices connected to the network,

j) maintain a history of events relating to items a) to i);

k) enable the display of mapped items documented within the AIM software to a physical location on building plans and layouts.

H.3.1.3   Management and usage of information within AIM software

An AIM system shall be able to

a) enable a user to define the circumstances in which an event generates an alert,

b) enable a user to view graphical representation of connectivity (circuit trace) and other relational information for the items documented within the AIM software,

c) provide recommendations on the cabling connectivity tasks required within work orders for service provision,

d) enable a user to manage work orders related to items documented within the AIM software

1) create,

2) assign or re-assign,

3) schedule or re- schedule,

4) enact,

5) track (status),

6) close,

e) maintain a work order history,

f) provide means for retrieval of electronic work orders in spaces accommodating AIM hardware,

g) provide a means to automatically detect the accuracy of implementation of connect/disconnect work order tasks between AIM-enabled ports,

h) provide a means to alert in case of an incorrect implementation,

i) automatically update the task status following correct implementation,

j) generate reports (both automatically and on-demand) related to items documented within the AIM software.

H.3.1.4   Integrity of information within AIM software

Integrity of information shall be maintained in the event of disruption of the AIM system or its components.

H.3.2   Auxiliary functions of AIM systems

Other features of AIM systems should be considered during the specification of an AIM system (see ISO/IEC 18598[2]).

H.4   Operational requirements

AIM systems shall be implemented and maintained with an appropriate level of operational discipline, including an auditing regimen to ensure ongoing accuracy.

H.5   Usage recommendations

Subclause 9.2.6.3 (Table 22) recommends the use of automated records within Class 3 administration systems.

In addition to this basic recommendation, this annex recommends the consideration of AIM systems

a) within Class 2 administration systems where there is an identified or predicted shortage of staff with the expertise to administer telecommunications cabling,

b) for the administration of remote sites of any Class of administration system.

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2 Under consideration.

Bibliography

Add, after IEC 81346-2, the following new entry:

ISO/IEC 18598, *Information technology – Automated infrastructure management (AIM) systems – Requirements, data exchange and applications*[3]

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[3]   Under consideration.