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Edition 1.0 2016-09

INTERNATIONAL STANDARD

**Information technology –
Automated infrastructure management (AIM) systems – Requirements, data
exchange and applications**

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INFORMATION TECHNOLOGY –

Automated infrastructure management (AIM) systems – Requirements, data exchange and applications

FOREWORD

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International Standard ISO/IEC 18598 was 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.

INTRODUCTION

This International Standard is intended for

- premises owners and facility managers,
- suppliers of AIM solutions,
- planners of network infrastructures,
- network operation managers,
- data centre operation managers,
- IT process managers,
- suppliers of management system software,
- software integrators.

This International Standard is one of a number of documents prepared in support of International Standards and Technical Reports produced by ISO/IEC JTC 1/SC 25.

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INFORMATION TECHNOLOGY –

Automated infrastructure management (AIM) systems – Requirements, data exchange and applications

1 Scope

This International Standard specifies the requirements and recommendations for the attributes of automated infrastructure management (AIM) systems.

This International Standard explains how AIM systems can contribute to operational efficiency and deliver benefits to

- a) cabling infrastructure and connected device administration,
- b) facilities and IT management processes and systems,
- c) other networked management processes and systems (e.g. intelligent building systems),
- d) business information systems covering asset tracking and asset management together with event notifications and alerts that assist with physical network security.

This International Standard specifies a framework of requirements and recommendations for data exchange with other systems

2 Normative references

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

There are no normative references in this document.

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1

AIM-enabled port

port which is able to automatically detect the insertion and removal of a cord and process that event as part of an automated infrastructure management system

3.1.2

AIM hardware

combination of patch panels and controllers that are designed to automatically detect the insertion or removal of cords, to record connectivity information, and to exchange connectivity information with AIM software

3.1.3**AIM system**

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

3.1.4**alarm**

event of sufficient importance to be highlighted within the AIM system

3.1.5**application programming interface****API**

set of commands, functions and protocols that specify how software components should interact

3.1.6**basic connectivity configuration**

list of information including, but not restricted to, number and type of ports, number of slots, expansion cards, MAC and IP address

3.1.7**business information system**

system that is used to analyse and facilitate strategic and operational activities for an organization

3.1.8**building management system****BMS**

computer-based control system installed in a building that controls and monitors mechanical and electrical equipment such as heating, ventilation and air-conditioning (HVAC), power systems and access control systems

3.1.9**cabling connectivity information**

combination of connection information automatically detected by AIM and additional cabling infrastructure information from various sources

3.1.10**cabling infrastructure**

cables, connecting hardware, panels and other closures, cabinets, frames, racks together with pathways and spaces providing their accommodation

3.1.11**circuit**

series of electromagnetically connected components or devices

3.1.12**closure**

fixture or fitting of either open or closed construction intended to contain connecting hardware

[SOURCE: ISO/IEC 14763-2:2012, 3.1.11]

3.1.13**command**

defined method which either provides data or performs an internal operation within an AIM system based on a request