

<b>STN</b>	<b>Informačná technika. Systémy automatizovaného manažmentu infraštruktúry (AIM). Požiadavky, výmena dát a aplikácie.</b>	<b>STN EN 50667</b>
		36 7254

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

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola označená vo Vestníku ÚNMS SR č. 04/17

Obsahuje: EN 50667:2016

**124631**

---

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2017

Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnrožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

EUROPEAN STANDARD

**EN 50667**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 35.110; 35.240.99

## English Version

## Information technology - Automated infrastructure management (AIM) systems - Requirements, data exchange and applications

Technologies de l'information - Systèmes de gestion  
d'infrastructure automatisée (AIM, Automated infrastructure  
management) - Exigences, interfaces et applications

Informationstechnik - Systeme für automatisiertes  
Infrastrukturmangement (AIM) - Anforderungen,  
Schnittstellen und Anwendungen

This European Standard was approved by CENELEC on 2016-10-24. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Contents

	Page
<b>European foreword.....</b>	<b>4</b>
<b>Introduction.....</b>	<b>5</b>
<b>1 Scope.....</b>	<b>6</b>
<b>2 Normative references.....</b>	<b>6</b>
<b>3 Terms, definitions and abbreviations .....</b>	<b>6</b>
<b>3.1 Terms and definitions .....</b>	<b>6</b>
<b>3.2 Abbreviations .....</b>	<b>9</b>
<b>4 Conformance .....</b>	<b>9</b>
<b>5 Automated infrastructure management (AIM) systems .....</b>	<b>10</b>
<b>5.1 Functional elements.....</b>	<b>10</b>
<b>5.2 System requirements.....</b>	<b>10</b>
<b>5.3 Functional requirements .....</b>	<b>10</b>
<b>5.3.1 Documentation and maintenance of information within AIM software .....</b>	<b>10</b>
<b>5.3.2 Management and usage of information within AIM software .....</b>	<b>11</b>
<b>5.3.3 Integrity of information within AIM software .....</b>	<b>12</b>
<b>5.4 Functional recommendations .....</b>	<b>12</b>
<b>6 AIM solutions: business benefits .....</b>	<b>12</b>
<b>6.1 General .....</b>	<b>12</b>
<b>6.2 Intrinsic benefits of stand-alone AIM systems.....</b>	<b>12</b>
<b>6.2.1 Accurate documentation .....</b>	<b>12</b>
<b>6.2.2 Asset management .....</b>	<b>13</b>
<b>6.2.3 Capacity management .....</b>	<b>13</b>
<b>6.2.4 Change management .....</b>	<b>13</b>
<b>6.2.5 Incident management .....</b>	<b>14</b>
<b>6.3 Extrinsic benefits of AIM when linked with other business information and network management systems.....</b>	<b>14</b>
<b>6.3.1 General .....</b>	<b>14</b>
<b>6.3.2 IT-related systems .....</b>	<b>15</b>
<b>6.3.3 Building management systems .....</b>	<b>18</b>
<b>6.3.4 Data centre infrastructure management (DCIM) .....</b>	<b>18</b>
<b>6.3.5 Configuration management database (CMDB) applications .....</b>	<b>20</b>
<b>7 AIM solutions: Data exchange framework.....</b>	<b>21</b>
<b>7.1 General .....</b>	<b>21</b>
<b>7.2 Data exchange format and protocols .....</b>	<b>21</b>
<b>7.3 Commands .....</b>	<b>21</b>
<b>7.4 Common data model definition .....</b>	<b>22</b>
<b>7.4.1 General .....</b>	<b>22</b>

<b>7.4.2 Element reference ID</b> .....	<b>22</b>
<b>7.4.3 Element and attribute definitions</b> .....	<b>23</b>
<b>7.4.4 Containment rules and hierarchy</b> .....	<b>29</b>
<b>Annex A (informative) Hierarchy and containment rules</b> .....	<b>30</b>
<b>Annex B (informative) Field descriptions</b> .....	<b>32</b>
<b>Annex C (normative) Implementation requirements and recommendations</b> .....	<b>34</b>
<b>C.1 General</b> .....	<b>34</b>
<b>C.2 Design</b> .....	<b>34</b>
<b>C.3 Specification</b> .....	<b>34</b>
<b>C.4 Installation</b> .....	<b>35</b>
<b>C.5 Operation</b> .....	<b>35</b>
<b>Annex D (informative) Optional lower level data exchange framework</b> .....	<b>36</b>
<b>Bibliography</b> .....	<b>37</b>
<b>Figures</b>	
<b>Figure 1 — Example of a helpdesk work flow integrated with an AIM system</b> .....	<b>17</b>
<b>Figure 2 — Relationship between AIM systems and CMDB applications</b> .....	<b>20</b>
<b>Figure A.1 — Spaces</b> .....	<b>30</b>
<b>Figure A.2 — Telecommunications equipment</b> .....	<b>31</b>
<b>Figure A.3 — Work orders</b> .....	<b>31</b>
<b>Tables</b>	
<b>Table 1 — Work order management commands</b> .....	<b>21</b>
<b>Table 2 — Asset management</b> .....	<b>22</b>
<b>Table 3 — Alarms and events</b> .....	<b>22</b>
<b>Table 4 — Circuit tracing</b> .....	<b>22</b>
<b>Table 5 — Attribute key</b> .....	<b>23</b>
<b>Table 6 — Connectivity</b> .....	<b>23</b>
<b>Table 7 — Premises/space</b> .....	<b>24</b>
<b>Table 8 — Furniture</b> .....	<b>24</b>
<b>Table 9 — Telecommunications equipment</b> .....	<b>25</b>
<b>Table 10 — Organizational element</b> .....	<b>27</b>
<b>Table 11 — Work Order</b> .....	<b>28</b>
<b>Table 12 — Work Order Task</b> .....	<b>28</b>
<b>Table 13 — Event</b> .....	<b>28</b>
<b>Table 14 — Alarm</b> .....	<b>29</b>
<b>Table B.1 — AIM software fields</b> .....	<b>32</b>
<b>Table D.1 — Port level</b> .....	<b>36</b>
<b>Table D.2 — Port level work actions</b> .....	<b>36</b>

**EN 50667:2016 (E)**

## **European foreword**

This document (EN 50667:2016) has been prepared by CLC/TC 215 "Electrotechnical aspects of telecommunication equipment", based upon ISO/IEC 18598:2016 "Information technology – Automated infrastructure management (AIM) systems – Requirements, data exchange and applications".

The following dates are fixed:

latest date by which this document has to (dop) [2017-07-24]  
be implemented at national level by  
publication of an identical national  
standard or by endorsement

latest date by which the national standards (dow) [2019-10-24]  
conflicting with this  
document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

## **Introduction**

This European Standard is intended for:

- a) premises owners and facility managers;
- b) suppliers of AIM solutions;
- c) planners of network infrastructures;
- d) network operation managers;
- e) data centre operation managers;
- f) IT process managers;
- g) suppliers of management system software;
- h) software integrators.

This European Standard is one of a number of documents prepared in support of European Standards and Technical Reports produced by CLC/TC 215.

**EN 50667:2016 (E)**

## **1 Scope**

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

This European 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 European 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.

Not applicable.

koniec náhľadu – text d'alej pokračuje v platenej verzii STN