

SLOVENSKI STANDARD SIST EN 50136-1:2012/A1:2018

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Alarmni sistemi - Sistemi in oprema za prenos alarma - 1. del: Splošne zahteve za sisteme za prenos alarmov - Dopolnilo A1

Alarm systems - Alarm transmission systems and equipment - Part 1: General requirements for alarm transmission systems

Alarmanlagen - Alarmübertragungsanlagen und -einrichtungen - Teil 1: Allgemeine Anforderungen an Alarmübertragungsanlagen D PREVIEW

Systèmes d'alarme - Systèmes et équipements de transmission d'alarme - Partie 1: Exigences générales pour les systèmes de transmission d'alarme

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ICS:

13.320 Alarmni in opozorilni sistemi Alarm and warning systems

SIST EN 50136-1:2012/A1:2018 en,fr

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Alarm systems - Alarm transmission systems and equipment -Part 1: General requirements for alarm transmission systems

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This amendment A1 modifies the European Standard EN 50136-1:2012; it was approved by CENELEC on 2018-04-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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.

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

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European foreword

This document (EN 50136-1:2012/A1:2018) has been prepared by CLC/TC 79, "Alarm systems".

The following dates are fixed:

•	latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2019-05-02
•	latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2021-11-02

This document supersedes EN 50136-1:2012.

EN 50136-1:2012/A1:2018 includes the following significant technical changes with respect to EN 50136-1:2012:

Amendment 1 to this standard improves the additional requirements for so-called hosted RCT alarm transmission systems and makes miscellaneous changes to correct errors and to reflect better the current state of the art.

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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.

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EN 50136-1:2012/A1:2018 (E)

1 Modification to European foreword

Add the following:

"Part 9 - Requirements for common protocol for alarm transmission using the internet protocol (IP)"

2 Modification to Clause 2, Normative references

Replace the existing text with the following:

"The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 50136-2, Alarm systems - Alarm transmission systems and equipment - Part 2: Requirements for Supervised Premises Transceiver (SPT)

EN 50136-3, Alarm systems - Alarm transmission systems and equipment - Part 3: Requirements for Receiving Centre Transceiver (RCT)

3 Modifications to Clause 4, Terms, definitions and abbreviations

Replace term and definition 4.1.7 with:

"4.1.7

alarm transmission service provider person or an entity that is responsible for design, operation, management and the verification of performance of one or more ATSN (standards.iteh.ai)

Note 1 to entry: The ATSP may delegate some responsibility through contracts with customers, MARCs, transmission network operators etc. but retains overall responsibility 20136-1:2012/A1:2018

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Replace term and definition 4.1.280 with % fe883f3/sist-en-50136-1-2012-a1-2018

"4.1.28

receiving centre transceiver

equipment located at a secure location and has as a minimum the functionality to receive and deliver alarm messages to the AMS

Note 1 to entry: The RCT may include management functions for the ATS.".

Replace term and definition 4.1.37 with:

"4.1.37

transmission time

time from when a change of state occurs or alarm message is presented for transmission at the SPT interface to the AS until the time that the new state or message is reported at the RCT interface to the AMS"

Add the following new terms and definitions:

"4.1.38

secure location

location that is a MARC or another location that complies with a published data centre standard Note 1 to entry: Examples of published data centre standards or accepted best practices are: a data centre designed and maintained to EN 50600 series. Availability class 3, Protection class 4 or ARC category I in accordance to EN 50518; or as best practices Uptime Institute Tier 3.

4.1.39

monitoring and alarm receiving centre

continuously manned centre where information concerning the status of one or more AS is reported, and additionally where the status of one or more ATS is monitored

4.1.40

alarm management system

system at a MARC which stores, organizes, controls, manages and allows retrieval of client data and is interfaced to the alarm receiving equipment (RCT) for automatic annunciation of messages for each alarm system

4.1.41

hosted RCT

RCT that consists of two parts, where one part is located in a secure location (RCT-H) and another part is installed in the ARC (RCT-A)"

Add abbreviations in 4.2

"AMS	Alarm Management System
------	-------------------------

IRCT Interface of the AMS to the RCT

MARC Monitoring and Alarm Receiving Center

RCT-H Hosted part of the RCT used in a hosted ATS solution

RCT-A Part of the hosted RCT installed in the ARC, partner of the RCT-H."

4 Modification to Clause 5, General requirements

Add the following paragraph to 5.2.1:

"An ATSP shall be identified for both direct and hosted ATS for the appropriate categories as defined per Table 1.".

Replace Table 1 with the following table: SIST EN 50136-1:2012/A1:2018

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	SP1	SP2	SP3	SP4	SP5	SP6	DP1	DP2	DP3	DP4
SPT primary network interface	м	М	м	м	м	м	м	м	м	М
SPT alternative network interface	Ор	Ор	Ор	Ор	Ор	Ор	м	м	м	М
Alternative RCT	Ор	Ор	Ор	Ор	Ор	Ор	м	м	м	м
RCT primary network interface	м	М	м	м	м	м	м	м	м	М
RCT alternative network interface	Ор	Ор	Ор	Ор	Ор	Ор	м	м	м	М
ATSP for non-hosted ATS	Ор	Ор	Ор	м	м	м	Ор	м	м	М
ATSP for hosted ATS	м	М	м	м	м	м	м	м	м	М
Κον	1	1	1	1	1	1	1	1	1	1

Table 1 — ATS configuration

Key

M = Mandatory

Op = Optional

NOTE ATSP is not required for non-hosted ATS solutions for categories SP1, SP2, SP3 and DP1 because there are no requirements for availability (see Table 6).

EN 50136-1:2012/A1:2018 (E)

Replace 5.2.2 with:

"

***5.2.2** Custom category

Where an application cannot be satisfied by any of the categories of this standard a new custom category, category C, shall be defined and it shall include the rationale for the choice of the custom category and there shall be sufficient documentation for the verification of performance.

A statement shall be made referring to the requirements listed in Tables 1, 2, 3, 4, 5, 6, 7, 8 and 9. All other clauses of this standard shall apply.".

5 Modifications to Clause 6, System requirements

In 6.3.3.3.1, replace Table 3 with:

SP1 SP2 SP3 SP4 SP5 SP6 DP1 DP2 DP3 DP4 **Primary ATP** failure 32 25 h 30 min 3 min 90 s 20 s 25 h 30 min 3 min 90 s days Reporting time Alternative ATP failure Maximum Op Op eh Op TA Op Op -50 h 25 h 25 h 5 h period when primary (standards.iteh.a operational Alternative ST EN 501<mark>36-1:201</mark>2/A1:2018 SI ATP failure nttps://standards.iteh.ai/catalog/standards/sig t/33c083e8 -2daf-49e6-58e1-Maximum (**Op**) 8fe883 **(Op**) st-en-5**(Op**) 6-1-2**(Op**-a1-201**25 h** QD QD 30 min 3 min 90 s period when primary failed Failure of all 32 ATPs at the 25 h 30 min 3 min 90 s 20 s 25 h 31 min 4 min 3 min days same time* *Where an ATS includes two or more ATPs the reporting time shall meet the requirements of this table.

In 6.3.3.3.2, delete NOTE 3 and insert the following new paragraph: "

"Where an ATS remains operational a single path line fault shall be presented to the ATSP, but can be delayed presenting it to the AMS where it is agreed between the interested parties. The maximum delay shall not exceed 96 h.".

".

Replace Note 4 with Note 3.

In 6.6, replace Table 4 with:

"

Alarm	SP1	SP2	SP3	SP4	SP5	SP6	DP1	DP2	DP3	DP4	
ATS failure	м	М	м	М	М	М	м	м	м	м	
ATP failure	Na	Na	Na	Na	Na	Na	м	м	м	м	
M = Mandatory											
No. Not ever Percha											

Table 4 — RCT to AMS alarm reporting

Na = Not applicable

NOTE 1 The SP categories have only one ATP, in this instance only an ATS failure needs to be reported.

NOTE 2 The alarm transmission service provider should document the messages used to report the required alarms to the AMS.

NOTE 3 For category DP1, DP2, DP3 and DP4 the method of alarm reporting of all paths failed to the AMS should be either an 'ATS primary path failure' and an 'ATS alternative path failure' message, and/or as an 'all paths failed' message. The method of reporting shall be documented by the ATSP.

NOTE 4 For category DP1, DP2, DP3 and DP4 where the reporting of ATP failures to the AMS are delayed, confusion may arise if the user of the alarm system is made aware of ATP failures (see Table 5). It is therefore recommended in these cases that ATP failures are not reported to the AS.

In 6.6, *replace* the paragraph (under Table 5) with:

"Single path systems

Failure of the ATS shall be reported to the AS in accordance with the requirements of Table 5.

Dual path systems

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Failure of the ATS shall be reported to the AS in accordance with the requirements of Table 5.

ATP failures need not be reported to the AS unless specified and agreed between the interested parties.

In 6.7.5, replace the existing text above Table Gwith the following: a1-2018

"6.7.5 ATS availability recording

For the purpose of performance monitoring and verification ATP and ATS availability shall be recorded.

Where the ATS availability fails to meet the requirements of Table 6 it shall be clearly indicated in the availability records.

For categories DP2, DP3 and DP4 where the ATP availability is less than 95 % in any 7-day period it shall be clearly indicated in the availability records.

The ATSP shall have in place processes and procedures to make the availability reports available to the interested parties for the purpose of maintaining the required performance level. Further details of these processes and procedures are provided in TS 50136-7.".

In 6.8.1 replace the text with the following:

"6.8.1 General security requirements

The ATSP shall describe means to protect the ATS and its components (e.g. SPTs, RCTs and hosted RCTs) against malicious attacks and inadvertent influences.

To achieve substitution and information security cryptographic techniques shall be used.

When symmetric encryption algorithms are used, key length shall be no less than 128 bits. When other algorithms are deployed, they shall provide similar level of cryptographic strength. Any hash functions used shall give a minimum of 128 bits output. Regular automatic key changes shall be used with machine generated randomized keys.

Use of cryptographic algorithms as defined in ISO/IEC 18033 is recommended. Use of hash functions as defined in ISO/IEC 10118 is recommended.