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SLOVENSKI STANDARD
SIST EN 50136-3:2014/oprA1:2020

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Alarmni sistemi - Sistemi in oprema za prenos alarma - 3. del: Zahteve za oddajnik sprejemnega centra (RCT) - Dopolnilo A1

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

Alarmanlagen - Alarmübertragungsanlagen und -einrichtungen - Teil 3: Anforderungen an Übertragungszentralen (ÜZ)

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Systèmes d'alarme - Systèmes et équipements de transmission d'alarme - Partie 3: Exigences pour les transmetteurs du centre de réception (RCT)

Ta slovenski standard je istoveten z: **EN 50136-3:2013/prA1**

ICS:

13.320	Alarmni in opozorilni sistemi	Alarm and warning systems

SIST EN 50136-3:2014/oprA1:2020   **en,fr**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

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

Systèmes d'alarme - Systèmes et équipements de transmission d'alarme - Partie 3: Exigences pour les transmetteurs du centre de réception (RCT)

Alarmanlagen - Alarmübertragungsanlagen und -einrichtungen - Teil 3: Anforderungen an Übertragungszentralen (ÜZ)

This draft amendment prA1, if approved, will modify the European Standard EN 50136-3:2013; it is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2020-05-29.

It has been drawn up by CLC/TC 79.

If this draft becomes an amendment, 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.

This draft amendment was established by CENELEC 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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CENELEC

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

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EN 50136-3:2013/prA1:2020

15   **Contents**

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21 **European foreword**

22 This document (EN 50136-3:2013/prA1:2020) has been prepared by CLC/TC 79, "Alarm systems".

23 This document is currently submitted to the Enquiry.

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

27 The following dates are proposed:

— latest date by which the existence of this document has to be announced at national level	(doa)	dor + 6 months
— latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	dor + 12 months
— latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	dor + 36 months (to be confirmed or modified when voting)

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EN 50136-3:2013/prA1:2020

29 **1 Modification to Clause 4, Object**

30 *Replace the existing text with the following:*

31 "This European standard specifies the minimum equipment requirements for the performance,
32 reliability, resilience, security and safety characteristics of the Receiving Centre Transceiver (RCT)
33 installed in alarm receiving centres and/or in a secure location, and to define parameters that shall be
34 tested to ensure its compatibility with ATS categories.".

35 **2 Modifications to Clause 6, Functional requirement**

36 **6.2 Access levels**

37 *Replace the 7th paragraph of 6.2 with:* "

38 Where it is possible to attempt to gain access more than 3 times in a 60-s period the RCT shall have
39 the ability to delay repeated attempts. After the third attempt, each further attempt shall be prevented
40 for a minimum of 90 s. This should be recorded in the RCT and an alarm should be sent to the ATSP.

41 This kind of behaviour should be considered as an attempted hacking.".

42

43 **6.5 Monitoring and notification of failure of the ATP and ATS**

44 *Replace the 1st paragraph of 6.5 with:* "

45 For compliance to the relevant standards of the application, the RCT shall monitor ATP and ATS.
46 Failures shall be reported to the AMS as defined in EN 50136-1:2012/A1:2018, 6.6, Table 4 and made
47 available to the ATSP.".

48

49 **6.6 Interface(s) to the AE(s)**

50 Replace the title and the 2nd paragraph 6.6 with: "

51 "**6.6 Interface(s) to the AMS(s)**"

52 and

53 "The manufacturer shall state in their product documentation the specifications of the interface(s) to
54 the I$_{RCT}$ (AMS) and how the fault signal is presented and logged.".

55

56 **6.7 Fault signalling**

57 *Replace the paragraphs of 6.7 with:* "

58 The RCT shall have a means to signal faults when any of the following faults occur:

59 - transmission link failure between RCT (or RCT-A for hosted solution) and AMS (I$_{RCT}$);

60   It may not be possible to signal this failure to the AMS over a failed link.

61 - in case of hosted solution, transmission link failure between RCT-H and RCT-A;

62 - transmission network interfaces between RCT (or for hosted solution RCT-H) and SPT (for
63   example encryption issue);

64 - internal RCT system failure including time deviation after the commissioning.

65 The manufacturer shall specify in the RCT documentation how these faults are signalled to the AMS
66 and to the ATSP. The manufacturer shall describe how this can be tested.".

67

4

68 **6.8 Event recording**

69 *Replace the 3rd paragraph:*

70 "The event log may be stored outside of the RCT."

71 *with:*

72 "The event log archives may be stored outside of the RCT.".

73 3 Modifications to Clause 7, Tests

74 **7.3 Functional tests**

75 *For all the subclauses in 7.3 all the references to* "AE" *have to be replaced with* "AMS".

76

77 **7.3.1 General**

78 *Replace:*

79 "All AE interfaces shall be tested."

80 *with:*

81 "All AMS interfaces shall be tested.".

82

83 *Replace Table 3 with this new table:* "

Section reference	Requirement to test	Test/validation objective	Validate or test
6.1	Processing of alarm signals	Demonstrate the ability of the RCT to receive, process and forward a signal or message from the ATS.	Test (7.3.9)
6.2	Access levels	Demonstrate that all access levels exist.	Test (7.3.2)
6.3	Upload and download of software	Demonstrate that the RCT will recover after an unsuccessful software upload/download.	Test (7.3.3)
6.4	Storage of parameters and customer specific data	Demonstrate that the RCT will not lose any parameters or customer specific data after a reset or power cycle.	Test (7.3.4)
6.5a	Notification of an ATS failure for a single path ATS	Demonstrate that the RCT signals an ATS failure to the AMS as defined in EN 50136-1:2012, Table 4.	Test (7.3.5)
6.5b	Notification of an ATS failure for a dual path ATS	Demonstrate that the RCT signals an ATS failure to the AMS as defined in EN 50136-1:2012, Table 4.	Test (7.3.6)
6.6	Interface(s) to the AMS(s)	Demonstrate that the interface(s) to the AMS(s)	Test (7.3.7)

Section reference	Requirement to test	Test/validation objective	Validate or test
		are monitored.	
6.7	Fault signalling	Demonstrate that faults are signalled according to the manufacturer RCT documentation.	Test (7.3.8)
6.8a	Event recording	Demonstrate that all mandatory events are recorded as required in Table 2.	Test (7.3.10)
6.8b	Clock resolution and synchronisation	Demonstrate that the accuracy of the timestamps as attached to events in the log complies with the requirements of 6.9.	Test (7.3.11)
6.8c	Endurance of the log	Verify that the manufacturer documentation specifies how 3-year endurance of log entries is achieved.	Validate (7.3.12)
6.8d	Optimizing methods of storage of events	(only if implemented) Demonstrate that event storage by grouping them as described in 6.9 is implemented and compliant with the requirements.	Test (7.3.13)
6.8e	User identification of log entries	Demonstrate that user identification for log entries is logged according to the requirements of Table 2.	Test (7.3.14)
6.9	Mode of operation	Demonstrate that the implemented modes of operation comply with the requirements of 6.10.	Test (7.3.15)
6.10	Denial of service	Verify the manufacturer RCT documentation.	Validate (7.3.16)
6.11	Information security	Verify the manufacturer declaration how information security is implemented and complies with the requirements of this section.	Validate (7.3.17)
6.12	Substitution security	Verify the manufacturer declaration how substitution security is implemented and complies with the requirements of this section.	Validate (7.3.17)

Section reference	Requirement to test	Test/validation objective	Validate or test
6.13	RCT Redundancy	Verify where a RCT can be used in a Dual Path ATS configuration a failure of one RCT shall not compromise the ATS according to EN 50136-1:2012, Table 1.	Test (7.3.18)
6.14	Documentation	Verify the manufacturer documentation against the requirements of 6.14.	Validate (7.3.19)
6.15	Marking/identification	Verify the marking and identification against the requirements of 6.15.	Validate

84   ".

85

86   **7.3.5 Monitoring and notification of an ATS failure for a single path ATS**

87   *Replace all text of 7.3.5 with:* "

88   **a) Object of the test:**

89   Demonstrate that the RCT signals an ATS failure to the AMS as defined in EN 50136-1:2012, Table 4.

90

91   **b) Principle:**

92   The tests consists of configuring a SPT for the reporting time of every single path category supported
93   by the RCT. Connecting the SPT to the RCT via a transmission network. Disabling the SPT and
94   recording that the ATS failure is reported to the AMS within the maximum reporting time for each
95   single path category.

96

97   **c) Test conditions:**

98   Fully operational SPT connected via a network to the RCT.

99

100   **d) Test procedure:**

101   Disable the SPT by powering off the SPT.

102

103   **e) Measurement:**

104   Record the ATS failure transmitted to the AMS.

105

106   **f) Pass criteria:**

107   An ATS failure shall be transmitted to the AMS within the maximum ATS reporting time. Optionally an
108   ATP failure may be transmitted to the AMS.".

109

110   **7.3.6 Monitoring and notification of an ATS failure for a dual path ATS**

111   *Replace all text of 7.3.6 with:* "

112   **a) Object of the test:**