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Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

**I.S. EN 50136-1-5:2008**

ICS 13.320  
33.040.40

**ALARM SYSTEMS - ALARM  
TRANSMISSION SYSTEMS AND  
EQUIPMENT -- PART 1-5: REQUIREMENTS  
FOR PACKET SWITCHED NETWORK PSN**

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**EUROPEAN STANDARD**

**EN 50136-1-5**

**NORME EUROPÉENNE**

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English version

**Alarm systems -  
Alarm transmission systems and equipment -  
Part 1-5: Requirements for Packet Switched Network PSN**

Systèmes d'alarme -  
Systèmes et équipements  
de transmission d'alarme -  
Partie 1-5: Exigences pour réseaux  
à commutation de paquets PSN

Alarmanlagen -  
Alarmübertragungsanlagen  
und -einrichtungen -  
Teil 1-5: Anforderungen  
an ein paketvermittelndes Netz  
(Packet Switched Network PSN)

This European Standard was approved by CENELEC on 2008-02-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

**I.S. EN 50136-1-5:2008**

EN 50136-1-5:2008

– 2 –

**Foreword**

This European Standard was prepared by the Technical Committee CENELEC TC 79, Alarm systems.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50136-1-5 on 2008-02-01.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2009-02-01
  - latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2011-02-01
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## **Contents**

<b>1</b>	<b>Scope .....</b>	<b>4</b>
<b>2</b>	<b>Normative references .....</b>	<b>4</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>4</b>
<b>4</b>	<b>Objective .....</b>	<b>4</b>
<b>5</b>	<b>Transmission network requirements .....</b>	<b>4</b>
5.1	Generalities .....	4
5.2	Transmission link requirement .....	4
5.3	Shared PSN .....	5
5.4	Performance .....	5
<b>6</b>	<b>Transceivers or equivalent equipments functional requirements .....</b>	<b>5</b>
6.1	Generalities .....	5
6.2	Signalling security of messages on PSN .....	5
<b>7</b>	<b>Verification of performance .....</b>	<b>5</b>
	<b>Bibliography .....</b>	<b>6</b>

**I.S. EN 50136-1-5:2008**

EN 50136-1-5:2008

– 4 –

**1 Scope**

This European Standard specifies the requirements for alarm transmission systems using Packet Switched Networks (PSN), which are additional to those in EN 50136-1-1:1998.

The alarm transmission system using PSN may use wired links, voice grade signalling links, mobile networks, radio or data links and may include ethernet switches, hubs, firewalls, ADSL-routers and DSL-modems. The standard is also applicable to alarm transmission systems in which signalling links are shared with other services within the above descriptions.

**2 Normative references**

The following referenced documents are indispensable for the application 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 50136-1-1:1998      Alarm systems - Alarm transmission systems and equipment –  
+ A1:2001              Part 1-1: General requirements for alarm transmission systems  
+ A2:2008

**3 Terms and definitions**

For the purpose of this document the terms and definitions given in EN 50136-1-1:1998, 4.7 and in EN 50136-1-1:1998/A2:2008, apply to reflect the additional security required.

**4 Objective**

The objective of this European Standard is to specify the additional performance characteristics of alarm transmission systems using PSN to ensure suitability for use and compatibility with different types of alarm systems. For compliance with this document alarm transmission equipment and alarm transmission systems shall conform to the details set out in EN 50136-1-1:1998. These additional requirements are to address the specific risks associated with the use of the PSN environment, which may or may not operate over the public network, e.g. internet or a private network e.g. Intranet.

**5 Transmission network requirements****5.1 Generalities**

PSN used for alarm transmission systems within the scope of this European Standard shall conform to the requirements of EN 50136-1-1:1998 that no spurious alarm outputs shall occur when the alarm transmission system is restored to normal after a fault. In addition the following requirements shall be met (see 5.2 to 5.4).

NOTE 1 Transmission network components:

Network components including ADSL modems, DSL modems, routers, ethernet switches, Ethernet hubs, external firewalls and network wiring etc. may not meet the requirements in the standard for alarm transmission equipment in EN 50136-2-1. Ethernet modules/interfaces at the alarm transceiver are not part of the transmission network.

NOTE 2 Network power fails reporting to alarm receiving centre: Network equipment, which is located at the supervised premises, which is not classified, as being part of the alarm transmission equipment is therefore not required to have a secondary power supply.

**5.2 Transmission link requirement**

Any unwanted, malformed or otherwise malicious incoming data received from one transmission link at a rate not exceeding the full capacity of the link shall not prevent the link to perform as specified.

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