TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

CLC/TS 50136-9

January 2013

ICS 13.320; 33.040.40

English version

Alarm systems - Alarm transmission systems and equipment - Part 9: Requirements for common protocol for alarm transmission using the Internet protocol

Systèmes d'alarmes - Systèmes et équipements de transmission d'alarme - Partie 9 : Exigences pour le protocole commun de transmission d'alarme utilisant le protocole Internet

Alarmanlagen - Alarmübertragungsanlagen und –einrichtungen - Teil 9: Anforderungen an standardisierte Protokolle zur Alarmübertragung unter Nutzung des Internetprotokolls

This Technical Specification was approved by CENELEC on 2012-11-12.

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CENELEC

European Committee for Electrotechnical Standardization
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Ref. No. CLC/TS 50136-9:2013 E

Contents

Foreword

This document (CLC/TS 50136-9:2013) has been prepared by CLC/TC 79 "*Alarm systems"*.

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

1 Scope

This Technical Specification specifies a protocol for point-to-point transmission of alarms and faults, as well as communications monitoring, between a Supervised Premises Transceiver and a Receiving Centre Transceiver using the Internet protocol (IP).

The protocol is intended for use over any network that supports the transmission of IP data. These include Ethernet, xDSL, GPRS, WiFi, UMTS and WIMAX.

The system performance characteristics for alarm transmission are specified in EN 50136-1.

The performance characteristics of the supervised premises equipment should comply with the requirements of its associated alarm system standard and shall apply for transmission of all types of alarms including, but not limited to, fire, intrusion, access control and social alarms.

Compliance with this Technical Specification is voluntary.

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.

EN 50136-1:2012, *Alarm systems — Alarm transmission systems and equipment — Part 1: General requirements for alarm transmission systems*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50136-1:2012 apply.

3.2 Abbreviations

For the purposes of this document, the following abbreviations apply.

AES	Advanced Encryption Standard
ARC	Alarm Receiving Centre
ATS	Alarm Transmission System
CA	X.509 Certificate Authority
CBC	Cipher Block Chaining
CRC	Cyclic redundancy check
DNS	Domain Name System
DTLS	Datagram Transport Layer Security
HL	Header Length
IP	Internet Protocol
IV	Initialization Vector
MAC	Media Access Control
MTU	Maximum Transmission Unit
NAT	Network Address Translation
NIST	National Institute of Standards and Technology
NTP	Network Time Protocol
NVM	Non-Volatile Memory
P-MTU	Path Maximum Transmission Unit