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Electricity metering data exchange — The DLMS/COSEM suite

Part 8-7: AMC-SS PLC communication
profile for neighbourhood networks

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National foreword

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Part 8-7: AMC-SS PLC communication profile for neighbourhood
networks

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Foreword

This document (CLC/TS 52056-8-7:2015) has been prepared by CLC/TC 13 "Electrical energy measurement and control".

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1 Scope

This Technical Specification specifies the DLMS/COSEM communication profile using a compatibly-extendable form (CX1) of Adaptive Multi-Carrier Spread-Spectrum (AMC-SS) PLC for neighbourhood networks. Its structure is in line with the DLMS/COSEM framework as described in EN 62056-1-0[GK1].

The transport layer, the application layer and the data model are as specified in the EN 62056 DLMS/COSEM suite.

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.

CLC/TS 50590:2015, *Electricity metering data exchange - Lower layer PLC profile using Adaptive Multi-Carrier Spread-Spectrum for CX1 networks*

EN 61334-4-32:1996, *Distribution automation using distribution line carrier systems – Part 4 : Data communication protocols – Section 32: Data link layer – Logical link control (LLC) (IEC 61334-4-32:1996)*

EN 61334-4-1:1996, *Distribution automation using distribution line carrier systems – Part 4 : Data communication protocols – Section 1: Reference model of the communication system (IEC 61334-4-1:1996)*

EN 62056-5-3, *Electricity metering data exchange – The DLMS/COSEM suite – Part 5-3: DLMS/COSEM application layer (IEC 62056-5-3)*

EN 62056-6-1, *Electricity metering data exchange – The DLMS/COSEM suite – Part 61: OBIS Object identification system (IEC 62056-6-1)*

EN 62056-6-2, *Electricity metering data exchange – The DLMS/COSEM suite – Part 62: Interface classes (IEC 62056-6-2)*

FprEN 62056-4-7:2014, *Electricity metering data exchange - The DLMS/COSEM suite – Part 4-7: DLMS/COSEM transport layer for IP networks (IEC 62056-4-7:201X, 13/1570/CDV)*

EN 62056-9-7:2013, *Electricity metering data exchange – The DLMS/COSEM Suite – Part 9-7: Communication profile for TCP-UDP/IP networks (IEC 62056-9-7:2013)*

RFC 2507 - IP Header Compression. Authors: M. Degermark, B. Nordgren, S. Pink. February 1999. Available from <http://tools.ietf.org/html/rfc2507>

Ipv4 TOS Byte and Ipv6 Traffic Class Octet <http://www.iana.org/assignments/ipv4-tos-byte/ipv4-tos-byte.xml>