

TECHNICAL REPORT

IEC TR 62051-1

First edition
2004-01

**Electricity metering –
Data exchange for meter reading,
tariff and load control –
Glossary of terms –**

**Part 1:
Terms related to data exchange
with metering equipment using DLMS/COSEM**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICITY METERING –
DATA EXCHANGE FOR METER READING,
TARIFF AND LOAD CONTROL –
GLOSSARY OF TERMS –****Part 1: Terms related to data exchange
with metering equipment using DLMS/COSEM**

FOREWORD

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IEC 62051-1, which is a technical report, has been prepared by IEC technical committee 13: Equipment for electrical energy measurement and load control.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
13/1299/DTR	13/1302/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until 2008. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

The contents of the corrigendum of June 2005 have been included in this copy.

ELECTRICITY METERING – DATA EXCHANGE FOR METER READING, TARIFF AND LOAD CONTROL – GLOSSARY OF TERMS –

Part 1: Terms related to data exchange with metering equipment using DLMS/COSEM

1 Scope

This part of IEC 62051 reflects the most important terms used in International Standards after the publication of IEC 62051 in 1999. The new terms are mainly related to data exchange with metering equipment for meter reading, tariff and load control using DLMS/COSEM as specified in the IEC 62056 series of standards.

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.

IEC 60050-714:1992, *International Electrotechnical Vocabulary (IEV) – Chapter 714: Switching and signalling in telecommunications*

IEC 60050-716-1:1995, *International Electrotechnical Vocabulary (IEV) – Chapter 716-1: Integrated services digital network (ISDN) – Part 1: General aspects*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following definitions, as well as those given in IEC 60050-714 and IEC 60050-716-1, apply.

3.1.1

3-layer, connection-oriented, HDLC-based profile (relevant to IEC 62056-46)

communication profile based on the OSI collapsed architecture, which consists of a physical layer, a data link layer based on the HDLC standard and the COSEM application layer containing the connection-oriented Application Control Service Element (ACSE)

3.1.2

abstract data and objects (relevant to IEC 62056-61 and IEC 62056-62)

data, other than measurement values, which may be related to an energy type and which are modelled using abstract interface objects

3.1.3

ACTION (relevant to IEC 62056-53)

xDLMS data communication service used with logical name (LN) referencing for the invocation of methods of COSEM interface objects. The availability of this service is indicated in the xDLMS conformance block and its use is negotiated upon application association establishment