PD IEC/TS 62056-1-1:2016

BSI Standards Publication

Electricity metering data exchange — The DLMS/COSEM Suite

Part 1-1: Template for DLMS/COSEM communication profile standards

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National foreword

This Published Document is the UK implementation of IEC/TS 62056-1-1:2016.

The UK participation in its preparation was entrusted to Technical Committee PEL/57, Power systems management and associated information exchange.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Electricity metering data exchange – The DLMS/COSEM suite – Part 1-1: Template for DLMS/COSEM communication profile standards

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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- the subject is still under technical development or where, for any other reason, there is the future but no immediate possibility of an agreement on an International Standard.

Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC TS 62056-1-1, which is a technical specification, has been prepared by IEC technical committee 13: Electrical energy measurement and control.

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

Enquiry draft	Report on voting
13/1643A/DTS	13/1656/RVC

Full information on the voting for the approval of this technical specification 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.

A list of all parts in the IEC 62056 series, published under the general title *Electricity metering data exchange – The DLMS/COSEM suite*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

This Technical Specification defines a communication profile template, to be used for establishing IEC 62056 communication profile standards which follow the IEC 62056-1-0 standardization framework.

NOTE It is foreseen that this TS will be integrated into IEC 62056-1-0 as an informative Annex at the next revision of that standard.

In particular, this template is suited for establishing communication profile standards that specify how DLMS/COSEM is used on a specific communication technology where it is assumed that the specific communication technology is already defined by a specific communication standard. The purpose of this template is:

- to improve the readability of the standards;
- to improve the efficiency to develop communication profile standards.

In the Introduction of an IEC 62056 communication profile standard, remove the text above (starting with "This Technical Specification defines ..." and ending with "...to improve the efficiency to develop communication profile standards") and add the following text:

As defined in IEC 62056-1-0, the IEC 62056 DLMS/COSEM suite provides specific communication profile standards for communication media relevant for smart metering.

Such communication profile standards specify how the COSEM data model and the DLMS/COSEM application layer can be used on the lower, communication media specific protocol layers.

Communication profile standards refer to communication standards that are part of the IEC 62056 DLMS/COSEM suite or to any other open communication standard.

This International Standard specifies DLMS/COSEM communication profiles for <*add a brief description of the communication technology and the smart metering interfaces covered*>.

It follows the rules defined in IEC 62056-5-3:2016, Annex A.

Add one paragraph to justify the relevance of the standard by summarising the main use cases of this profile.

ELECTRICITY METERING DATA EXCHANGE – THE DLMS/COSEM SUITE –

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The title of an IEC 62056 communication profile standard shall be:

ELECTRICITY METERING DATA EXCHANGE – THE DLMS/COSEM SUITE –

Part x-x: XXXX communication profile for YYYY networks

Where:

- *XXXX identifies the communication technology as it appears in the lower layer standard(s) referenced);*
- *YYYY identifies the smart metering network section(s) (WAN, NN, LN) the communication technology is used for.*

1 Scope

This part of IEC 62056 defines a template for IEC 62056 communication profile standards.

It provides the “Table of contents” of such standards and provides guidance to develop the content of the relevant clauses and subclauses.

NOTE The parts of the standard providing guidance are written in italic font.

In the Scope of an IEC 62056 communication profile standard, remove the text above and add the following:

This International Standard specifies DLMS/COSEM communication profiles for <*add a brief description of the communication technology and the smart metering interfaces covered*>.

The scope of this communication profile standard is restricted to aspects concerning the use of communication protocols in conjunction with the COSEM data model and the DLMS/COSEM application layer. Data structures specific to a communication protocol are out of the Scope of the communication profile standard.

They should be specified in the specific protocol standards.

Any project specific definitions of data structures and data contents may be provided in project specific companion specifications.

Add any other relevant information identifying what is and what is not in the Scope of the communication profile standard.

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.