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BSI Standards Publication

Electricity metering data exchange – The DLMS/COSEM suite

Part 9-1: Communication profile using web-services to access a DLMS/COSEM server via a COSEM Access Service (CAS)

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee PEL/13, Electricity Meters.

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

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Electricity metering data exchange – The DLMS/COSEM suite – Part 9-1: Communication profile using web-services to access a DLMS/COSEM server via a COSEM Access Service (CAS)

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

IEC TS 62056-9-1, 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
13/1641/DTS	13/1662/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- withdrawn,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.

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ELECTRICITY METERING DATA EXCHANGE – THE DLMS/COSEM SUITE –

Part 9-1: Communication profile using web-services to access a DLMS/COSEM server via a COSEM Access Service (CAS)

1 Scope

This part of IEC 62056, which is a Technical Specification, defines how DLMS/COSEM servers can be accessed from a COSEM Access Client via an intermediate COSEM Access Service (CAS) providing Web services. The DLMS/COSEM server contains an application server supporting the data model of IEC 62056-6-1 / IEC 62056-6-2 and the application layer of IEC 62056-5-3. The underlying communication layers between the CAS and the DLMS/COSEM server are not covered by this specification. However, it is assumed that a profile standard exists describing how the underlying communication technology is used in conjunction with IEC 62056-6-1/ IEC 62056-6-2 and IEC 62056-5-3.

The Web services defined in this Technical Specification concern the G2 interface according to the architecture defined in IEC 62056-1-0.

The contents of this document define the Web services between the COSEM Access Client and the COSEM Access Service (CAS) as shown in Figure 1.

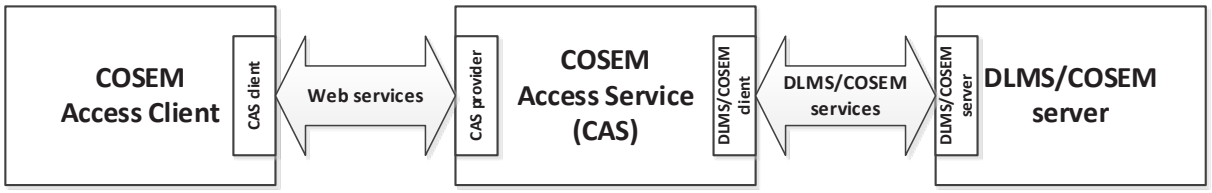

Figure 1 – Reference model for the COSEM Access Client to DLMS/COSEM server connection via a COSEM Access Service

The COSEM Access Client identifies the DLMS/COSEM server by its system title (see IEC 62056-5-3).

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.

IEC 61968-1:2012, *Application integration at electric utilities – System interfaces for distribution management – Part 1: Interface architecture and general recommendations*

IEC 61968-100:2013, *Application integration at electric utilities – System interfaces for distribution management – Part 100: Implementation profiles*

IEC 62056-1-0, *Electricity metering data exchange – Part 1-0: Smart metering standardization framework*