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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17215.697-2018

**Electricity metering data exchange -- The DLMS/COSEM suite --
Part 97: Communication profile for TCP-UDP/IP networks**

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Foreword

GB/T 17215 "AC measuring equipment" is divided into several parts, GB/T 17215.6 "Electrical measurement data exchange DLMS/COSEM

Components are divided into the following sections.

- Part 10. Intelligent Measurement Standardization Framework;
- Part 11. DLMS/COSEM communication configuration standard template;
- Part 31. Local area network use based on twisted pair carrier signals;
- Part 46. Data link layer using HDLC protocol;
- Part 47. DLMS/COSEM transmission layer based on IP network;
- Part 53. DLMS/COSEM application layer;
- Part 61. Object Identification System (OBIS);
- Part 62. COSEM interface class;
- Part 73. Wired and wireless M-Bus communication configurations for local and community networks;
- Part 76. HDLC-based connection-oriented three-layer communication configuration;
- Part 91. Communication configuration using the WEB service to access the COSEM server via CAS;
- Part 97. Communication configuration based on TCP-UDP/IP network.

This part is the 97th part of GB/T 17215.6.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to IEC 62056-9-7.2013 "Electrical

Measurement Data Exchange DLMS/COSEM Components Section 9-7

Part. Communication configuration based on TCP-UDP/IP network.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 17215.653-2018 Electrical Measurement Data Exchange DLMS/COSEM Components Part 53. DLMS/CO-

SEM application layer (IEC 62056-5-3..2017, IDT).

This section has made the following editorial changes.

--- The standard name was changed from part 9-7 to part 97.

1 Scope

This part of GB/T 17215.6 specifies the DLMS/COSEM communication configuration based on TCP-UDP/IP network.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC 62056-47.2006 Electrical meter reading, rate and load control data exchange - Part 47.

Transport layer (ElectricitymeteringDataexchangeformeterreading,tariffandloadcontrol-Part 47.CO-

SEMtransportlayerforIPv4networks)

IEC 62056-5-3.2013 Electrical Measurement Data Exchange DLMS/COSEM Components Part 5-3. DLMS/COSEM Application

Layer (Electricitymeteringdataexchange-TheDLMS/COSEMsuite-Part 5-3. DLMS/COSEMappli-

Cationlayer)

3.1 Terms and definitions

The following terms and definitions apply to this document.

3.1.1

Client client

A site that requests service, usually the primary site.

3.1.2

Server side server

A site that provides services. The rate device (meter) is usually the server side, submitting the requested value or performing the requested task.

3.2 Abbreviations

The following abbreviations apply to this document.

AA. Application Association (ApplicationAssociation)

AARE. Application Connection Response - one of the ACCE's APDUs
(A-AssociateResponse-anAPDUoftheACSE)

AARQ. Application Connection Request - one of the ACEI's APDUs
(A-AssociateRequest-anAPDUoftheACSE)

ACSE. Connection Control Service Element (AssociationControlServiceElement)

AL. Application Layer (ApplicationLayer)

AP. Application Process (ApplicationProcess)

APDU. Application Layer Protocol Data Unit (ApplicationLayerProtocolDataUnit)

ARP. Address Resolution Protocol (AddressResolutionProtocol)