
Okvir za komunikacije na trgu z električno energijo - 351. del: Skupni informacijski model (CIM) za izmenjevalni profil evropskega tržnega modela

Framework for energy market communications - Part 351: CIM European market model exchange profile

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Cadre pour les communications pour le marché de l'énergie - Partie 351: Profil de modèle d'échange de marché de style européen basé sur le CIM

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**Framework for energy market communications -
Part 351: CIM European market model exchange profile
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marché de l'énergie -
Partie 351: Profil de modèle d'échange
pour un système de gestion de marché de
style européen basé sur le CIM
(CEI 62325-351:2013)

Kommunikation im Energiemarkt -
Teil 351: CIM Profile für den Europäischen
Markt
(IEC 62325-351:2013)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 57/1373/FDIS, future edition 1 of IEC 62325-351, prepared by IEC/TC 57, "Power systems management and associated information exchange" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62325-351:2013.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-07-31
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-10-31

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Endorsement notice

The text of the International Standard IEC 62325-351:2013 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61970-452	NOTE	Harmonised as EN 61970-452.
IEC 61970-552	NOTE	Harmonised as EN 61970-552.
IEC 62325-301	NOTE	Harmonised as EN 62325-301.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TS 61970-2	2004	Energy management system application program interface (EMS-API) - Part 2: Glossary	CLC/TS 61970-2	2005
IEC 62325-450	2013	Framework for energy market communications - Part 450: Profile and context modelling rules	EN 62325-450	2013
IEC 62361-100	-	Harmonization of quality codes across TC 57 - Part 100: Naming and design rules for CIM profiles to XML schema mapping	FprEN 62361-100 ¹⁾	-

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¹⁾ At draft stage.

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**Framework for energy market communications –
Part 351: CIM European market model exchange profile**

**Cadre pour les communications pour le marché de l'énergie –
Partie 351: Profil de modèle d'échange pour un système de gestion de marché
de style européen basé sur le CIM**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FRAMEWORK FOR ENERGY MARKET COMMUNICATIONS –

Part 351: CIM European market model exchange profile

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62325-351 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

The text of this standard is based on the following documents:

FDIS	Report on voting
57/1373/FDIS	57/1389/RVD

Full information on the voting for the approval of this standard 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 the parts in the IEC 62325 series, published under the general title *Framework for energy market communications*, 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 web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

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INTRODUCTION

This International Standard is part of the IEC 62325 series for deregulated energy market communications.

The principal objective of the IEC 62325 series of standards is to produce standards which facilitate the integration of market application software developed independently by different vendors into a market management system, between market management systems and market participant systems. This is accomplished by defining message exchanges to enable these applications or systems access to public data and exchange information independent of how such information is represented internally.

The common information model (CIM), i.e. IEC 62325-301, IEC 61970-301 and IEC 61968-11 standards, specifies the basis for the semantics for message exchange.

The European style market profile is based on different parts of the CIM IEC standard and specifies the business processes and the content of the messages exchanged.

This part of IEC 62325 provides the European style market profile specifications that support the European style design electricity markets. These electricity markets are based on the European regulations, and on the concepts of third party access and zonal market. This part of IEC 62325 was originally based upon the work of the European Transmission System Operators (ETSO) and then on the work of the European Network of Transmission System Operators (ENTSO-E) on electronic data interchange.

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FRAMEWORK FOR ENERGY MARKET COMMUNICATIONS –

Part 351: CIM European market model exchange profile

1 Scope

This part of IEC 62325 is applicable to European style electricity markets.

This part of IEC 62325 specifies a UML package which provides a logical view of the functional aspects of European style market management within an electricity markets.

This package is based on the common information model (CIM). The use of the CIM goes far beyond its application in a market management system.

Due to the size of the complete CIM, the object classes contained in the CIM are grouped into a number of logical packages, each of which represents a certain part of the overall power system being modelled. Collections of these packages are progressed as separate International Standards.

From the CIM packages, regional contextual models are built to cover the market information interchange requirements for a given region, i.e. the business context. A region may be a continent where common electricity market designs are used for the exchange of information (Europe, North America, Asia, etc.). It may also be a specific country or an organization that has particular needs and wishes to benefit from the CIM.

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2 Normative references [122e51b54626/sist-en-62325-351-2014](https://standards.iteh.ai/catalog/standards/sist/fdb4c567-4e6a-4130-914a-122e51b54626/sist-en-62325-351-2014)

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 61970-2:2004, *Energy management system application program interface (EMS-API) – Part 2: Glossary*

IEC 62325-450:2013, *Framework for energy market communications – Part 450: Profile and context modeling rules*

IEC 62361-100¹, *Power systems management and associated information exchange – Interoperability in the long term – Part 100: Naming and design rules for CIM profiles to XML schema mapping*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61970-2, as well as the following apply.

3.1

aggregate business information entity

ABIE

re-use of an aggregate core component (ACC) in a specified business

¹ To be published.