

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

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**Framework for energy market communications -
Part 351: CIM European market model exchange profile
(IEC 62325-351:2013)**

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
(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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-10-31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⁾	-

¹⁾ At draft stage.

CONTENTS

FOREWORD.....	6
INTRODUCTION.....	8
1 Scope.....	9
2 Normative references	9
3 Terms and definitions	9
4 European style market concepts	11
4.1 From the CIM information model to the European style market profile	11
4.1.1 General	11
4.1.2 Applying the framework to the European style electricity market.....	12
4.1.3 Examples for building a European style market profile	12
4.2 European style market package structure	14
4.3 The European electricity market concepts	15
4.4 Business process modelling	16
4.5 Business rules for the European style market profile	17
4.5.1 General	17
4.5.2 Identification of an ESMP electronic document	17
4.5.3 Time	18
4.5.4 Coding scheme identification	18
4.5.5 Direction of flow within TimeSeries	18
4.5.6 Quantity within a TimeSeries	19
5 Detailed model	22
5.1 Documentation structure	22
5.2 Overview	23
6 Package architecture.....	25
6.1 European style market classes	25
6.1.1 European style market profile – detailed overview	25
6.1.2 IsBasedOn relationships from the CIM Information Model	26
6.1.3 Package ESMPClasses	26
6.2 European style market DataTypes	42
6.2.1 IsBasedOn relationships from the CIM Information Model	42
6.2.2 Package ESMPDataTypes	43
6.2.3 Enumeration DataTypes	53
Annex A (informative) European style market code lists – Package ESMPEnumerations	54
Bibliography.....	61
Figure 1 – IEC 62325-450 modelling framework	11
Figure 2 – Example of restrictions applied to CIM for a profile.....	13
Figure 3 – Overview of European style market profile dependency.....	14
Figure 4 – Curve – “Points” (24 hour day with a 4 hour resolution)	20
Figure 5 – Curve – “Sequential fixed size blocks” (24 hour day with a 4 hour resolution).....	20
Figure 6 – Curve – “Variable sized blocks” (24 hour day with a 4 hour resolution).....	21
Figure 7 – Curve – “Non-overlapping breakpoint” (24 hour day with a 4 hour resolution).....	21
Figure 8 – Curve – “Overlapping breakpoint” (24 hour day with a 4 hour resolution).....	22

Figure 9 – Overview of European style market profile	24
Figure 10 – European style market profile – classes	25
Figure A.1 – Class diagram ESMPenumerations – example	54
Table 1 – Attribute documentation example	23
Table 2 – Association Ends documentation example	23
Table 3 – Enumeration documentation example	23
Table 4 – Compound Datatype documentation example	23
Table 5 – IsBasedOn relationship from the CIM information model.....	26
Table 6 – Attributes of ESMPClasses::AceTariffType.....	27
Table 7 – Association ends of ESMPClasses::AceTariffType with other classes.....	27
Table 8 – Attributes of ESMPClasses::AttributeInstanceComponent.....	27
Table 9 – Attributes of ESMPClasses::Auction.....	28
Table 10 – Attributes of ESMPClasses::BidTimeSeries.....	28
Table 11 – Attributes of ESMPClasses::Currency_Unit.....	29
Table 12 – Attributes of ESMPClasses::DateAndOrTime.....	29
Table 13 – Attributes of ESMPClasses::Domain.....	30
Table 14 – Attributes of ESMPClasses::FlowDirection.....	30
Table 15 – Attributes of ESMPClasses::MarketAgreement.....	31
Table 16 – Attributes of ESMPClasses::MarketDocument.....	31
Table 17 – Association ends of ESMPClasses::MarketDocument with other classes.....	32
Table 18 – Attributes of ESMPClasses::MarketEvaluationPoint.....	33
Table 19 – Attributes of ESMPClasses::MarketObjectStatus.....	34
Table 20 – Attributes of ESMPClasses::MarketParticipant.....	34
Table 21 – Association ends of ESMPClasses::MarketParticipant with other classes.....	34
Table 22 – Attributes of ESMPClasses::MarketRole.....	35
Table 23 – Attributes of ESMPClasses::Measure_Unit.....	35
Table 24 – Attributes of ESMPClasses::MktPSRType.....	35
Table 25 – Attributes of ESMPClasses::Point.....	35
Table 26 – Association ends of ESMPClasses::Point with other classes.....	36
Table 27 – Attributes of ESMPClasses::Price.....	36
Table 28 – Attributes of ESMPClasses::Process.....	37
Table 29 – Attributes of ESMPClasses::Reason.....	37
Table 30 – Attributes of ESMPClasses::RegisteredResource.....	37
Table 31 – Association ends of ESMPClasses::RegisteredResource with other classes.....	38
Table 32 – Attributes of ESMPClasses::Series_Period.....	38
Table 33 – Association ends of ESMPClasses::Series_Period with other classes.....	38
Table 34 – Attributes of ESMPClasses::Time_Period.....	38
Table 35 – Association ends of ESMPClasses::Time_Period with other classes.....	39
Table 36 – Attributes of ESMPClasses::TimeSeries.....	39
Table 37 – Association ends of ESMPClasses::TimeSeries with other classes.....	40
Table 38 – IsBasedOn relationship from the CIM information model.....	42
Table 39 – Attributes of ESMPDataTypes::Action_Status.....	43

Table 40 – Attributes of ESMPDataTypes::ESMP_DateTimeInterval.	44
Table 41 – Attributes of ESMPDataTypes::AllocationMode_String.	44
Table 42 – Attributes of ESMPDataTypes::Amount_Decimal.	44
Table 43 – Attributes of ESMPDataTypes::AreaID_String.	45
Table 44 – Attributes of ESMPDataTypes::AttributeValue_String.	45
Table 45 – Attributes of ESMPDataTypes::AuctionKind_String.	45
Table 46 – Attributes of ESMPDataTypes::BusinessKind_String.	45
Table 47 – Attributes of ESMPDataTypes::CapacityContractKind_String.	46
Table 48 – Attributes of ESMPDataTypes::Category_String.	46
Table 49 – Attributes of ESMPDataTypes::ClassificationKind_String.	46
Table 50 – Attributes of ESMPDataTypes::CurrencyCode_String.	46
Table 51 – Attributes of ESMPDataTypes::CurveType_String.	46
Table 52 – Attributes of ESMPDataTypes::DirectionKind_String.	47
Table 53 – Attributes of ESMPDataTypes::EnergyProductKind_String.	47
Table 54 – Attributes of ESMPDataTypes::ESMP_DateTime.	47
Table 55 – Attributes of ESMPDataTypes::ESMPBoolean_String.	47
Table 56 – Attributes of ESMPDataTypes::ESMPVersion_String.	48
Table 57 – Attributes of ESMPDataTypes::ID_String.	48
Table 58 – Attributes of ESMPDataTypes::MarketRoleKind_String.	48
Table 59 – Attributes of ESMPDataTypes::MeasurementPointID_String.	49
Table 60 – Attributes of ESMPDataTypes::MeasurementUnitKind_String.	49
Table 61 – Attributes of ESMPDataTypes::MessageKind_String.	49
Table 62 – Attributes of ESMPDataTypes::ObjectAggregationKind_String.	49
Table 63 – Attributes of ESMPDataTypes::PartyID_String.	50
Table 64 – Attributes of ESMPDataTypes::PayloadId_String.	50
Table 65 – Attributes of ESMPDataTypes::Position_Integer.	50
Table 66 – Attributes of ESMPDataTypes::PriceCategory_String.	50
Table 67 – Attributes of ESMPDataTypes::PriceDirection_String.	50
Table 68 – Attributes of ESMPDataTypes::ProcessKind_String.	51
Table 69 – Attributes of ESMPDataTypes::PsrType_String.	51
Table 70 – Attributes of ESMPDataTypes::ReasonCode_String.	51
Table 71 – Attributes of ESMPDataTypes::ReasonText_String.	51
Table 72 – Attributes of ESMPDataTypes::ResourceID_String.	52
Table 73 – Attributes of ESMPDataTypes::RightsKind_String.	52
Table 74 – Attributes of ESMPDataTypes::Status_String.	52
Table 75 – Attributes of ESMPDataTypes::TariffKind_String.	52
Table 76 – Attributes of ESMPDataTypes::YMDHM_DateTime.	53
Table 77 – List of Enumeration Types.	53
Table A.1 – Literals of ESMPEnumerations::AllocationModeTypeList.	54
Table A.2 – Literals of ESMPEnumerations::AssetTypeList.	55
Table A.3 – Literals of ESMPEnumerations::AuctionTypeList.	55
Table A.4 – Literals of ESMPEnumerations::BusinessTypeList.	55
Table A.5 – Literals of ESMPEnumerations::CategoryTypeList.	55

Table A.6 – Literals of ESMPEnumerations::ClassificationTypeList	56
Table A.7 – Literals of ESMPEnumerations::CodingSchemeTypeList	56
Table A.8 – Literals of ESMPEnumerations::ContractTypeList	56
Table A.9 – Literals of ESMPEnumerations::CurrencyTypeList	57
Table A.10 – Literals of ESMPEnumerations::CurveTypeList	57
Table A.11 – Literals of ESMPEnumerations::DirectionTypeList	57
Table A.12 – Literals of ESMPEnumerations::EnergyProductTypeList	58
Table A.13 – Literals of ESMPEnumerations::IndicatorTypeList	58
Table A.14 – Literals of ESMPEnumerations::MessageTypeList	58
Table A.15 – Literals of ESMPEnumerations::ObjectAggregationTypeList	58
Table A.16 – Literals of ESMPEnumerations::ProcessTypeList	59
Table A.17 – Literals of ESMPEnumerations::ReasonCodeTypeList	59
Table A.18 – Literals of ESMPEnumerations::RightsTypeList	59
Table A.19 – Literals of ESMPEnumerations::RoleTypeList	60
Table A.20 – Literals of ESMPEnumerations::StatusTypeList	60
Table A.21 – Literals of ESMPEnumerations::TarifTypeList	60
Table A.22 – Literals of ESMPEnumerations::UnitOfMeasureTypeList	60

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.

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.

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 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.