



SLOVENSKI STANDARD SIST EN 61970-301:2014

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Aplikacijski programski vmesnik za sistem upravljanja z energijo (EMS-API) - 301. del: Osnova skupnega informacijskega modela (CIM) (IEC 61970-301:2013)

Energy management system application program interface (EMS-API) - Part 301: Common information model (CIM) base

Schnittstelle für Anwendungsprogramme für Netzführungssysteme (EMS-API) - Teil 301: Allgemeines Informationsmodell (CIM), Basismodell

Interface de programmation d'application pour système de gestion d'énergie (EMS-API) - Part 301: Base de modèle d'information commun (CIM)

Ta slovenski standard je istoveten z: EN 61970-301:2013

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35.200	Vmesniška in povezovalna oprema	Interface and interconnection equipment

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English version

**Energy management system application program interface (EMS-API) -
Part 301: Common information model (CIM) base
(IEC 61970-301:2013)**

Interface de programmation d'application
pour système de gestion d'énergie
(EMS-API) -
Part 301: Base de modèle d'information
commun (CIM)
(CEI 61970-301:2013)

Schnittstelle für Anwendungsprogramme
für Netzführungssysteme (EMS-API) -
Teil 301: Allgemeines Informationsmodell
(CIM), Basismodell
(IEC 61970-301:2013)

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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 57/1331/FDIS, future edition 4 of IEC 61970-301, 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 61970-301:2013.

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) 2014-04-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-06-27

This document supersedes EN 61970-301:2011.

EN 61970-301:2013 includes the following significant technical changes with respect to EN 61970-301:2011:

- extensions have been added to support UCTE exchange;
- several classes have been moved from EN 61970 to the Assets package in EN 61968;
- the transformer regulation model has been modified and expanded to support phase shifting transformer models needed by ENTSO-E;
- zero and negative sequence impedance terms have been added where missing;
- new StateVariables package has been added to support exchange of network model solutions from power flow, state estimation, etc.;
- additional classes that have been added included:
 - PhaseTapChanger
 - RatioTapChanger
 - ImpedanceVariationCurve
 - RatioVariationCurve
 - TapSchedule
 - SwitchSchedule
 - PhaseVariationCurve
 - EquivalentInjection added to the Equivalents package
 - WindGeneratingUnit and NuclearGeneratingUnit added as subtypes of GeneratingUnit
- classes that were removed included:
 - Company
 - HeatExchanger
 - MeasurementType class removed and replaced with attribute Measurement.measurementType.
 - Datatypes ShortLength and LongLength were removed and replaced with Length.
 - Load, CustomerLoad, and InductionMotorLoad.
 - Subtypes of ConformLoad and NonConFormLoad

- various editorial changes to cleanup the UML model.

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

Endorsement notice

The text of the International Standard IEC 61970-301:2013 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 61850 series	NOTE	Harmonised in EN 61850 series.
IEC 61850-7-3	NOTE	Harmonised as EN 61850-7-3.
IEC 61968 series	NOTE	Harmonised in EN 61968 series.
IEC 61968-11:2010	NOTE	Harmonised as EN 61968-11:2010 (not modified).
IEC 61970-501	NOTE	Harmonised as EN 61970-501.

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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 61850-7-4	-	Communication networks and systems for power utility automation - Part 7-4: Basic communication structure - Compatible logical node classes and data object classes	EN 61850-7-4	-
IEC/TS 61970-2	-	Energy management system application program interface (EMS-API) - Part 2: Glossary	CLC/TS 61970-2	-
ISO 8601	-	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-

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NORME INTERNATIONALE



**Energy management system application program interface (EMS-API) –
Part 301: Common information model (CIM) base**

**Interface de programmation d'application pour système de gestion d'énergie
(EMS-API) –
Partie 301: Base de modèle d'information commun (CIM)**

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