
**Sistem za upravljanje energije – aplikacijski programski vmesnik (EMS-API) – 501.
del: Shema skupnega informacijskega modela za okvirni opis vira (IEC 61970-
501:2006)**

Energy management system application program interface (EMS-API) -- Part 501:
Common Information Model Resource Description Framework (CIM RDF) schema

Anwendungsprogramm-Schnittstelle für Netzführungssysteme (EMS-API) -- Teil 501:
Allgemeines Informationsmodell (CIM) - Resource Description Framework (CIM RDF)
Schema

Système de gestion d'énergie - Interface de programmation d'application (EMS-API) --
Partie 501: Schéma de cadre général pour la description des ressources du modèle
d'information commun (CIM RDF)

Ta slovenski standard je istoveten z: EN 61970-501:2006

ICS:

29.240.30	Krmilna oprema za elektroenergetske sisteme	Control equipment for electric power systems
35.200	Vmesniška in povezovalna oprema	Interface and interconnection equipment

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EUROPEAN STANDARD
NORME EUROPÉENNE
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**Energy management system application program interface (EMS-API)
Part 501: Common Information Model Resource Description Framework
(CIM RDF) schema
(IEC 61970-501:2006)**

Système de gestion d'énergie
Interface de programmation d'application
(EMS-API)
Partie 501: Schéma de cadre général
pour la description des ressources
du modèle d'information commun
(CIM RDF)
(CEI 61970-501:2006)

Anwendungsprogramm-Schnittstelle
für Netzführungssysteme (EMS-API)
Teil 501: Allgemeines Informationsmodell
(CIM) –
Resource Description Framework
(CIM RDF) Schema
(IEC 61970-501:2006)

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 57/801/FDIS, future edition 1 of IEC 61970-501, prepared by IEC TC 57, Power systems management and associated information exchange, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61970-501 on 2006-04-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2007-01-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-04-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61970-501:2006 was approved by CENELEC as a European Standard without any modification.

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Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. 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 61970-1	- ¹⁾	Energy management system application program interface (EMS-API) Part 1: Guidelines and general requirements	EN 61970-1	2006 ²⁾
IEC/TS 61970-2	- ¹⁾	Energy management system application program interface (EMS-API) Part 2: Glossary	-	-
IEC 61970-301	- ¹⁾	Energy management system application program interface (EMS-API) Part 301: Common Information Model (CIM) Base	EN 61970-301	2004 ²⁾
IEC 60050	Series	International Electrotechnical Vocabulary (IEV)	-	-

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¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ENERGY MANAGEMENT SYSTEM APPLICATION
PROGRAM INTERFACE (EMS-API) –****Part 501: Common Information Model Resource
Description Framework (CIM RDF) schema**

FOREWORD

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International Standard IEC 61970-501 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
57/801/FDIS	57/813/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.

IEC 61970 consists of the following parts, under the general title *Energy Management System Application Program Interface (EMS-API)*:

- Part 1: Guidelines and general requirements
- Part 2: Glossary
- Part 301: Common Information Model (CIM) base
- Part 302: Common information model (CIM) financial, energy scheduling and reservations ¹
- Part 401: Component interface specification (CIS) framework
- Part 402: Component interface specification (CIS) – Common services¹
- Part 403: Component Interface Specification (CIS) – Generic data access¹
- Part 404: Component Interface Specification (CIS) – High speed data access¹
- Part 405: Component Interface Specification (CIS) – Generic eventing and subscription¹
- Part 407: Component Interface Specification (CIS) – Time series data access¹
- Part 453: Exchange of Graphics Schematics Definitions (Common Graphics Exchange) ¹
- Part 501: Common Information Model Resource Description Framework (CIM RDF) schema

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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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A bilingual edition of this standard may be issued at a later date.

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¹ Under consideration.

INTRODUCTION

This standard is part of the IEC 61970 series that define an Application Program Interface (API) for an Energy Management System (EMS). This standard is based upon the work of the EPRI Control Center API (CCAPI) research project (RP-3654-1).

This part specifies the mapping between the conceptual model specified as Unified Modeling Language (UML) defined in IEC 61970-3XX series: Common Information Model and the machine readable Extensible Markup Language (XML) representation of that schema using the Resource Description Framework (RDF) Schema specification language.

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