

English version

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

Interface de programmation d'application  
pour système de gestion d'énergie  
(EMS-API)  
Partie 2: Glossaire  
(CEI 61970-2:2004)

Anwendungsprogramm-Schnittstelle  
für Netzführungssysteme (EMS-API)  
Teil 2: Wörterbuch  
(IEC 61970-2:2004)

This Technical Specification was approved by CENELEC on 2004-08-28.

CENELEC members are required to announce the existence of this TS in the same way as for an EN and to make the TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force.

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**CENELEC**

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

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## Foreword

The text of the Technical Specification IEC/TS 61970-2:2004, prepared by IEC TC 57, Power systems management and associated information exchange, was submitted to the formal vote and was approved by CENELEC as CLC/TS 61970-2 on 2004-11-20.

The following date was fixed:

- latest date by which the existence of the CLC/TS  
has to be announced at national level (doa) 2005-10-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the Technical Specification IEC/TS 61970-2:2004 was approved by CENELEC as a Technical Specification 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 Where 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	- <sup>1)</sup>	Energy Management System Application Program Interface (EMS-API) Part 1: Guidelines and general requirements	EN 61970-1	- <sup>1)</sup>

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<sup>1)</sup> At draft stage.

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## INTRODUCTION

This Technical specification is part of the IEC 61970 series, which defines 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). The principle objectives of the EPRI CCAPI project are to:

- reduce the cost and time needed to add new applications to an EMS;
- protect the investment in existing applications that are working effectively in an EMS.

The principal task of the CCAPI project is to develop a set of guidelines, or specifications, to enable the creation of “plug-in” applications<sup>3</sup> in the control center environment.

This part of the IEC 61970 series provides a glossary of terms and abbreviations that are specific to the IEC 61970 series or may require interpretation as to how they were used in it.

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<sup>3</sup> A plug-in application is defined to be a piece of software that may be installed on a system with minimal effort and no modification of source code; i. e., the way software packages are installed on a desktop computer. The CCAPI Project goal is to at least approach that ideal by reducing the often significant efforts currently required to install third-party applications in an EMS.

# ENERGY MANAGEMENT SYSTEM APPLICATION PROGRAM INTERFACE (EMS-API) –

## Part 2: Glossary

### 1 Scope

This Technical specification provides a glossary for the volume of work produced as part of the IEC 61970 series of documents. Terms and abbreviations that are either specific to the series, or that require explanation because of the way that they are used in it, are supplied.

### 2 Normative references

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.

IEC 61970-1, *Energy Management System Application Program Interface (EMS-API) – Part 1: Guidelines and general requirements*

### 3 Terms and definitions

For the purposes of this Technical specification, the terms and definitions given below apply.

#### 3.1

##### **aggregation**

special case of association

#### 3.2

##### **application**

piece of software that comprises one or more components that perform some business function in a given domain. The important aspect is the functionality performed and not the packaging of the software. An example would be a word processor. It has a fairly well understood functionality but the components that are actually installed can look very different depending on the vendor.

#### 3.3

##### **application context**

collection of applications working together as an organizational unit to accomplish some high-level objective

#### 3.4

##### **Application Program Interface API**

set of public functions provided by an executable application component for use by other executable application components

#### 3.5

##### **association**

connection between classes that can be assigned a role