SLOVENSKI STANDARD
SIST EN 60870-6-702:2014

01-december-2014

Nadomešča:
SIST EN 60870-6-702:2000

Oprema in sistemi za daljinsko vodenje - 6-702. del: Protokoli daljinskega vodenja, združljivi s standardi ISO in priporočili ITU-T - Funkcijski profil za zagotavljanje aplikacijskih storitev TASE.2 v končnih sistemih (IEC 60870-6-702:2014)

Telecontrol equipment and systems - Part 6-702: Telecontrol protocols compatible with ISO standards and ITU-T recommendations - Functional profile for providing the TASE.2 application service in end systems

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Ta slovenski standard je istoveten z: EN 60870-6-702:2014

ICS:

33.200	Daljinsko krmiljenje, daljinske meritve (telemetrija)	Telecontrol. Telemetering

SIST EN 60870-6-702:2014   **en**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60870-6-702

October 2014

ICS 33.200

Supersedes EN 60870-6-702:1998

English Version

Telecontrol equipment and systems - Part 6-702: Telecontrol protocols compatible with ISO standards and ITU-T recommendations - Functional profile for providing the TASE.2 application service in end systems
(IEC 60870-6-702:2014)

Matériels et systèmes de téléconduite - Partie 6-702:
Protocoles de téléconduite compatibles avec les normes
ISO et les recommandations de l'UIT-T - Profil fonctionnel
pour fournir le service d'application TASE.2 dans les
systèmes finals
(CEI 60870-6-702:2014)

Fernwirkeinrichtungen und -systeme - Teil 6-702:
Fernwirkprotokolle, die mit ISO-Normen und ITU-T-
Empfehlungen kompatibel sind - Funktionsprofil für den
TASE.2-Anwendungsdienst in Endsystemen
(IEC 60870-6-702:2014)

This European Standard was approved by CENELEC on 2014-08-19. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

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

Ref. No. EN 60870-6-702:2014 E

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Foreword

The text of document 57/1454/FDIS, future edition 2 of IEC 60870-6-702, 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 60870-6-702:2014.

The following dates are fixed:

– latest date by which the document has to be implemented at   (dop)   2015-05-19
  national level by publication of an identical national
  standard or by endorsement

– latest date by which the national standards conflicting with   (dow)   2017-08-19
  the document have to be withdrawn

This document supersedes EN 60870-6-702:1998.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60870-6-702:2014 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated :

   IEC 60870-6-802:2014   NOTE   Harmonized as EN 60870-6-802:2014 (not modified).

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 1   When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2   Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60870-6-503	-	Telecontrol equipment and systems - Part 6-503: Telecontrol protocols compatible with ISO standards and ITU-T recommendations - TASE.2 Services and protocol	EN 60870-6-503	-
IEC/TS 62351-4	-	Power systems management and associated information exchange - Data and communications security - Part 4: Profiles including MMS	-	-
ISO/IEC 8327-2	-	Information technology - Open Systems Interconnection - Connection-oriented Session protocol: Protocol Implementation Conformance Statement (PICS) proforma	-	-
ISO/IEC 8650-2	-	Information technology - Open Systems Interconnection - Protocol specification for the Association Control Service Element: Protocol Implementation Conformance Statement (PICS) proforma	-	-
ISO/IEC 8823-2	-	Information technology - Open Systems Interconnection - Connection-oriented presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma	-	-
ISO 9506-1	2003	Industrial automation systems - Manufacturing Message Specification - Part 1: Service definition	-	-
ISO 9506-2	2003	Industrial automation systems - Manufacturing Message Specification - Part 2: Protocol specification	-	-

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Publication	Year	Title	EN/HD	Year
ISO/ISP 14226-1	1996 [1]	Industrial automation systems - International Standardized Profile AMM11: MMS General Applications Base Profile - Part 1: Specification of ACSE, Presentation and Session protocols for the use by MMS	-	-
ISO/ISP 14226-2	1996 [1]	Industrial automation systems - International Standardized Profile AMM11: MMS General Applications Base Profile - Part 2: Common MMS requirements	-	-
RFC 2126	-	ISO Transport Service on top of TCP (ITOT)	-	-

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[1] Withdrawn.

IEC 60870-6-702

Edition 2.0   2014-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Telecontrol equipment and systems –
Part 6-702: Telecontrol protocols compatible with ISO standards and ITU-T
recommendations – Functional profile for providing the TASE.2 application
service in end systems

Matériels et systèmes de téléconduite –
Partie 6-702: Protocoles de téléconduite compatibles avec les normes ISO
et les recommandations de l'UIT-T – Profil fonctionnel pour fournir le service
d'application TASE.2 dans les systèmes finals

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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TELECONTROL EQUIPMENT AND SYSTEMS –

Part 6-702: Telecontrol protocols compatible with ISO standards and ITU-T recommendations – Functional profile for providing the TASE.2 application service in end systems

FOREWORD

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International Standard 60870-6-702 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

This second edition cancels and replaces the first edition published in 1998 and constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

– Accounts, Programs, Event Enrollment, and Event Condition objects were moved from being normative to informative. As a result, the conformance tables have been updated.

– The services associated with Accounts, Programs, Event Enrollment, and Event Conditions are now out-of-scope.

– The TASE.2 conformance blocks 6, 7, 8, and 9 have been made out-of-scope.

These changes were made in order to remove TASE.2 blocks that were seldom used and whose capabilities are typically implemented by some other means besides TASE.2. This was done to promote interoperability of implementations from an application perspective.

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

FDIS	Report on voting
57/1454/FDIS	57/1478/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 parts in the IEC 60870 series, published under the general title *Telecontrol equipment and systems*, 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 part of IEC 60870 is one of the IEC 60870-6 series defining functional profiles to be used in telecommunication networks for electric power systems. It is largely based on existing ISO/IEC International Standards and International Standardized Profiles (ISP).

The notion of functional profiles is fundamental in the organization of the IEC 60870-6 series. A description of functional profiles, their classification scheme and the manner of defining them are laid down in IEC 60870-6-1.

This profile for telecontrol application service element (TASE.2, also known as inter-control centre communications protocol, ICCP) is an application-class profile (A-profile) providing communications capabilities to control centre applications. The TASE.2 in the application layer is specified in IEC 60870-6-503. The present standard refines the application layer protocol to meet interoperability requirements and specifies requirements on the presentation and session layers support for TASE.2. TASE.2 operates in a connection mode, so this A-profile needs to interface to a transport-class profile of the T-profile variety.

Since the TASE.2 is an MMS-based protocol, this functional profile (FP) is based on MMS profiles. In the OSI international standardized profile taxonomy there is a category for MMS A-profiles. The present standard makes frequent use of the AMM11 profile.