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BS EN 61850-7-410:2013



BSI Standards Publication

Communication networks and systems for power utility automation

Part 7-410: Basic communication structure
— Hydroelectric power plants —
Communication for monitoring and control

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This British Standard is the UK implementation of EN 61850-7-410:2013. It is identical to IEC 61850-7-410:2012. It supersedes BS EN 61850-7-410:2007, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PEL/57, Power systems management and associated information exchange.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments issued since publication

Date	Text affected
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English version

**Communication networks and systems for power utility automation -
Part 7-410: Basic communication structure -
Hydroelectric power plants -
Communication for monitoring and control
(IEC 61850-7-410:2012)**

Réseaux et systèmes de communication
pour l'automatisation
des systèmes électriques -
Partie 7-410: Structure
de communication de base -
Centrales hydroélectriques -
Communication pour le contrôle-
commande
(CEI 61850-7-410:2012)

Kommunikationsnetze und -systeme für
die Automatisierung in der elektrischen
Energieversorgung -
Teil 7-410: Wasserkraftwerke -
Kommunikation für Überwachung,
Regelung und Steuerung
(IEC 61850-7-410:2012)

This European Standard was approved by CENELEC on 2012-12-04. 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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Foreword

The text of document 57/1274/FDIS, future edition 2 of IEC 61850-7-410, 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 61850-7-410:2013.

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) 2013-09-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-12-04

This document supersedes EN 61850-7-410:2007.

EN 61850-7-410:2013 includes the following significant technical changes with respect to EN 61850-7-410:2007:

- a) The logical nodes in EN 61850-7-410:2007 that were not specific to hydropower plants have been transferred to EN 61850-7-4:2010 and have been removed from this edition of EN 61850-7-410.
- b) The definitions of logical nodes in this edition of EN 61850-7-410 have been updated using the format introduced in EN 61850-7-4:2010.
- c) Most of the modelling examples and background information that was included in EN 61850-7-410:2007 has been transferred to IEC/TR 61850-7-510.
- d) However, this edition of EN 61850-7-410 includes additional general-purpose logical nodes that were not included in EN 61850-7-4:2010, but are required in order to represent the complete control and monitoring system of a hydropower plant.

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 61850-7-410:2012 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:

NOTE Harmonized as EN 61970-301.

IEC 62270

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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

		Communication networks and systems in substations - Part 2: Glossary	-	-
IEC 61850-7-1	-	Communication networks and systems for power utility automation - Part 7-1: Basic communication structure - Principles and models	EN 61850-7-1	-
IEC 61850-7-2	2010	Communication networks and systems for power utility automation - Part 7-2: Basic information and communication structure - Abstract communication service interface (ACSI)	EN 61850-7-2	2010
IEC 61850-7-3	2010	Communication networks and systems for power utility automation - Part 7-3: Basic communication structure - Common data classes	EN 61850-7-3	2011
IEC 61850-7-4	2010	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	2010

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